P.O. BOX 19276

STATE OF ILLINOIS

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARD AND SPECIAL WASTE

UNIFORM HAZARDOUS 1. Generator's US EPA ID No.  WASTE MANIFEST 1. Generator's US EPA ID No.  ICD 049015134	Manifest Document No.	2. Page			naded areas is w, but is required
Generator's Name and Mailing Address Location If Different		A. Illino	is Manifest Docum	nent Nun	
Untiodal Castidgs 400 s. Laramie			<u> </u>	<u>L L 4</u>	FEE PAID IF APPLICA
2100 TL. 60304			erator's U Number 03	110	51/10/00
I. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*	umbor		sporter's	94. PA	
5. Transporter 1 Company Name 6. US EPA ID Nu	imper		1011100		370850-IL
Envirite of Illinois, Inc. ILD 000 666 206 7. Transporter 2 Company Name 8. US EPA ID Nu	ımber	F Tran	sporter's Phone (	800 335	i-4783
Managoria 2 company realis			Number		
D. Designated Facility Name and Site Address 10. US EPA ID Nu	ımber	F. Tran	sporter's Phone (	. )	
Envirite of Illinois, Inc.		G. Fac	ility's IL Number <b>  0   3</b>	:  ¶ ¶	1   1   0   0
16435 Center Avenue Harvey, IL 60426 ILD 000 666 206			ility's Phone (708		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta		13. Total	14. Unit	1.
	No.	Туре	Quantity	Wt/Vol	Waste No
P. DA 3077 PETT (DODT)					EPA HW Num
Q 1283077 PGTT (DOST)				4	
	00.	CM	00020		EPA HW Num
<b>).</b>			*		
	***************************************		<del>, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</del>		EPA HW Nun
		1.	 		
j.	-				EPA HW Nur
		1 1			
		ln	ndling Codes for V Item #14		isted Above
K/S169Z		ln	Item #14		isted Above
K/S169Z		ln	Item #14		sted Above
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full proper shipping name and are classified, packed, marked, and labeled, and are in all respects in	ully and accuratel	In v descrit	Item #14	·98	isted Above
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full proper shipping name and are classified, packed, marked, and labeled, and are in all respects i according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora	in proper conditions  e and toxicity of the conditions  e and the conditions of the conditions  e and the conditions of the conditions  e and the conditions of the conditions	y descrit n for tran waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.	in proper conditions  e and toxicity of the conditions  e and the conditions of the conditions  e and the conditions of the conditions  e and the conditions of the conditions	y descrit n for tran waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fur proper shipping name and are classified, packed, marked, and labeled, and are in all respects i according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for tran waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the press te generation a Date
15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full proper shipping name and are classified, packed, marked, and labeled, and are in all respects i according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the press te generation a Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are further proper shipping name and are classified, packed, marked, and labeled, and are in all respects a according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the press te generation a Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fur proper shipping name and are classified, packed, marked, and labeled, and are in all respects i according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the press te generation a Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are further proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the press te generation a Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are further proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the presente generation a Date Month Day  1 0 2 4 Date Month Day  1 0 2 4 Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed, Name  Signature  Signature	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the presente generation a Date Month Day  1 0 2 4 Date Month Day  1 0 2 4 Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fur proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  Signature  Signature  Signature  Signature	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the presete generation a Date Month Day Date Month Day 100 24 Month Day 100 24 Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are further proper shipping name and are classified, packed, marked, and labeled, and are in all respects it according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials  Eninted/Typed, Name  Signature  Signature  Signature  Signature  Signature  Signature  Signature	in proper condition e and toxicity of sige, or disposal continuous in the made a g	y descrit n for trar waste ge	tem #14  C = U para  Deed above by highway tenerated to the de available to me with the control of the decay and the control of the	egree I h	ave determined mizes the presente generation a Date Month Day  1 0 2 4 Date Month Day  1 0 2 4 Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are for proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waster management method that is available to me and that I can afford.  Printed/Typed Name  Signature  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  Signature  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature	in proper condition e and toxicity of uge, or disposal of have made a g	y descrit n for tran waste ge urrently a ood faith	them #14  Tell And  Deed above by sport by highway enerated to the deavailable to me will effort to minimize	egree I h	ave determined mizes the presente generation a Date Month Day  10 24 Date Month Day  10 2 4 Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fit proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  19. Discrepancy Indication Space	in proper condition e and toxicity of uge, or disposal of have made a g	y descrit n for tran waste ge urrently a ood faith	them #14  Tell And  Deed above by sport by highway enerated to the deavailable to me will effort to minimize	egree I h	ave determined mizes the presente generation at Date Month Day    O Z Y Date Month Day Date Month Day   Date Month Day Date Month Day
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are for proper shipping name and are classified, packed, marked, and labeled, and are in all respects in according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume be economically practicable and that I have selected the practicable method of treatment, stora and future threat to human health and the environment; OR, if I am a small quantity generator, select the best waster management method that is available to me and that I can afford.  Printed/Typed Name  Signature  Signature  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  Signature  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature	in proper condition e and toxicity of uge, or disposal of have made a g	y descrit n for tran waste ge urrently a ood faith	them #14  Tell And  Deed above by sport by highway enerated to the deavailable to me will effort to minimize	egree I h	ave determined mizes the prese te generation a Date Month Day Date Month Day Date Month Day

State Form LPC 62 8/81 IL532-0610

	888	1685°			
Form	Annueri	OM®RN	2050-0039	Expires	9-30-

ASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22		A   I(-)	ting in the	shaded areas is not
	Manifest cument No.	of prequesty	ired by Federa Ilinois law.	al law, but is required
3. Generator's Name and Mailing Address Location If Different:		Illinois Manifest IL: 456		umber Fee Paid, if Applicable
110 N. 25 th AUE. MELROSE PARCELL		Illinois Generator's	12.7.71	940012
4. Generator's Phone ( 204 ) 344-0613 5. Transporter 1 Company Name 6. US EPA ID Number	er , C	. Illinois Transpor	ter's IDUPU	167050D
ENVIRITE OF ILL. Inc. 120006660	money Control Committee Control Control	709596 Ullinois Transpor	25 年 10 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	sporter's Phone
7. Transporter 2 Company Name 8. US EPA ID Number	f	· () • • • • • • • • • • • • • • • • •		nsporter's Phone
9. Designated Facility Name and Site Address 10. US EPA ID Number	er 🤇	Sillinois Facility's ID	53.7.2.	110001
16435 S. CONTRACTORIES	ا جر د	I. Facility's Phone		PARKANDA
HARUEY IL 60426 JLD000bloc 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number	namena and a second	9081 59 ners 1 13.	14.	ε <b>Ο</b>
	No.	Total Type Quantit	Unit y Wt/Vot	Waste No.
all RO" HAZARdous WASTE SOLID NO.5. 9				XXIDOOL
NA 3077 PGILL (DOOG) (DOOZ) (DOOS)	001	M 000 F	202	Authorization Number
b.				XXIIIII
				Authorization Number
c.				EPA HW Number
				Authorization Number
d.				EPA HW Number
				Authorization Numbe
J. Additional Descriptions for Materials Listed Above Hらまだりるよ		K Handling Code In Item #14 1 = Gallons		
		In Item #14		s Listed Above
H5.# 1528  15. Special Handling Instructions and Additional Information	and accurately d	in ttem #14 1 — Gallons		s Listed Above
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper shipping name and are classified, packed, marked, and labeled, and are in all respects in properties. The properties of this consignment are fully a properties of the solution of the of the solut	oper condition to 	In tem #14  1 — Gallons  escribed above by r transport by highy aste generated to to	vay	S Listed Above  Cubic Yards
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceeding to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment, OR, if I am a small quantity generator, I have	oper condition to and toxicity of ways disposal curre	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	S Listed Above  Cubic Yards  we determined to be to be the present and
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceedings to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Signature	oper condition to and toxicity of ways disposal curre	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	S Listed Above  Cubic Yards  Ive determined to be lizes the present and leneration and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceedings to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future, threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Terms 17. Transporter 1. Acknowledgement of Receipt of Materials	oper condition to and toxicity of ways disposal curre	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	Tubic Yards  Cubic Yards  Exercised Above  Cubic Yards  Exercised Above  Above  Description and select  Date  Date  Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceeding to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  Terpstyce  17. Transporter 1 Acknowledgement of Receipt of Materials	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	ve determined to be izes the present and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proaccording to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	Tubic Yards  Cubic Yards  Exercised Above  Cubic Yards  Exercised Above  Above  Description and select  Date  Date  Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceedings to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	we determined to be zes the present and leneration and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proaccording to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future, threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	we determined to be zes the present and peneration and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceedings to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment, OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter I Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  19. Discrepancy Indication Space	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	we determined to be zes the present and leneration and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proaccording to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of tuture threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	oper condition to and toxicity of warrends	In tem #14  1 — Gallons  escribed above by r transport by highwaste generated to tently available to me	vay he degree   ha	we determined to be zes the present and leneration and select Date
15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proceeding to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage, of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	nd toxicity of word disposal curre made a good fa	In them #14  1 = Gallons  escribed above by r transport by highwaste generated to the mith effort to minimize the forting available to make the effort to minimize the effort to minimi	vay he degree I ha e which minimi ze my waste g	Tubic Yards  Toubic Yards
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully a proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proaccording to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume a economically practicable and that I have selected the practicable method of treatment, storage of future threat to human health and the environment; OR, if I am a small quantity generator, I have the best waste management method that is available to me and that I can afford.  Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	nd toxicity of word disposal curre made a good fa	In them #14  1 = Gallons  escribed above by r transport by highwaste generated to the mith effort to minimize the forting available to make the effort to minimize the effort to minimi	vay he degree I ha e which minimi ze my waste g	ve determined to be izes the present and eneration and select Date

Ε

N

E

A

T

, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 State Form LPC 62 8/81 IL532-0610 Form Approved, OMB No. 2050-0039, Expires 9-30-91 EPA Form 8700-22 (Rev. 9-88) (Form designed for use on elite (12-pitch) typewriter.) LEASE TYPE Information in the shaded areas is not Manifest UNIFORM HAZARDOUS 1. Generator's US EPA ID No required by Federal law, but is required by Illinois law. **WASTE MANIFEST** Alllinois Manifest Document Number 3. Generator's Name and Mailing Address
WATIONAL CASTINGS FILE. Location If Different: Fee Paid, if **Applicable** 110 N. 25th AVE: MEIROSE PARK, EL. Golbo B.Illinois Generator's 4. Generator's Phone ( 706 ) 344-0675 US EPA ID Number C. Illinois Transporter's IDUDIU 670 おおる 5. Transporter 1 Company Name D. (70\$ 596-7040 transporter's Phone TLD0006666206 ENVIRITE OF IL, IN US EPA ID Number E. Illinois Transporter's ID 7. Transporter 2 Company Name F.( 💎 ) 💥 Transporter's Phone 9. Designated Facility Name and Site Address
ENVIRING OF TL. TWO.
16435 S. CENTER Gillinois (A.C.) 10 US EPA ID Number Facilitys 631/11/19001 H. Facility's Phone ILD000666206 708 596-2040 HARVEY JL. 60426

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID 12. Containers Total Unit Waste No. No. Type Wt/Vc Quantity XXIDOOL a URQ" HARARdOUS WASTE SULID NOOS. 9 NA 3877 PG-41 (Doob) (Doo7) (Doos) Authorization Number EPA HW Number R Authorization Number A Fair (Carlo) EPA HW Number C. 0 Authorization Number R XXI III d. Authorization Number K. Handling Codes for Wastes Listed Above In Item # 14 J. Additional Descriptions for Materials Listed Above 45 #1528 ∠2 → Cubic Yards 1 = Gallons 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Date Month Day, Year Signature Printed/Typed Name

Date 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Signature Printed/Typed Name ANSPORTER 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Signature

19. Discrepancy Indication Space

A C I

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Yea Signature Printed/Typed Name

Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information to section of not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,000 allure to provide the information somment up to 5 years. This form

120400

P.O. BOX 19276

, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

L532-0610

SE TYPE	(Form designed for use							ا - ساله نست مرمند،	badad amaa :-	act
UNIFORM	A HAZARDOU E MANIFEST	S 1 Gene	rator's US EPA	776/	Manifest Document N	2. Pa		d by Federal	haded areas is law, but is requi	
Generator's Nam	ne and Mailing Addres	SS PA	Location If Di	ifferent:	the state of the s	200	is Manufest Do	cument Nu	mber Fee Pa	d, if
NHT WA	L CASTINGS	do a 1 12 mg	nonte 7	7 604	60	IL B.Illirx		<u> </u>	Applica	ble
110 N. 2	5th AVB,	MUKASA	JIMO, Z					1778	60al	Ø
Generator's Pho Transporter 1 Co	ne ( 106 )	344-06	<u>22م</u> 6. ء	US EPA ID Nu		200.0000003348	us Fransporte	The second secon	And the last of the state of th	
	of IL, I	Fic.	$\mathcal{L}_{\mathcal{L}}$	0000666		0.72	# 396-7	<i># 3</i> and	nulers the	e
Transporter 2 C			8.	US EPA ID Nu	mber	Congress Val	ois Transporter	en contract and our specimens	1 1 1	1
			10.	THE COLUMN	umb oc	F.(\)		- Trans	sporter's Pho	10
FRANK DIO TO	ility Name and Site A	LAKI	10.	US EPA ID Nu	illispei		are the second second	1/2/	1000	1/
16435	S. CENTE	n.					ility's Phone			
HARVEV	IX. 604	26	E-s#Emerones	<u>Doorle</u>	Service (Commercial Commercial Co		at 596		0	
1. US DOT Desc	ription (Including Pro	per Shipping Na	ame, Hazard Ci	lass, and ID Num		ontainers.	13. Total	14. Unit	i Waste No	
UDA" H	4 ZARdous	LUDGTE	Solid	11-05 9	No	Туре	Quantity	Wt/Vol	EPA HOW Name	100
									Authorization Nu	
NA 3077	PGILL	(Doob) (	D007) (L	0008)	06	1 CM	0002	0 2	EPA HW Numb	i] er
D.								)	<b>⟨X</b>   i: i	
							1 1 1 1		Authorization Nu	neer 
2.								a a	EPA HW Numl	er . I
		•	÷						Authorization No	nber
<u></u>					-	-			EPA HW Num	er
<b>11</b>										
a.									X X   1   1	mber
ر. Additional De	escriptions for Mate	erials Listed Ab	ove			- In	andling Codes Item #14			
ر. Additional De	escriptions for Mate 1528	erials Listed Ab	ove			- In			Listed Above	
. Additional Do 分子	■ 20 より20 またりませんじょうがある。					- In	Item #14		Listed Above	
Additional Do 分 増 15. Special Hand	Hing Instructions and	Additional Inform	nation	s consignment are fi	illy and accura	11 =	tem#14 Gallons	<b>@</b> =(	Listed Aboye Cubic Yar	ds
Additional Do  H H  15. Special Hand	t 1528  dling Instructions and 'S CERTIFICATION: I he	Additional Inform	nation the contents of thire, and labeled, and	s consignment are fo d are in all respects in	ully and accura	in 1 =	fem#14 Gallons	<b>@</b> =(	Listed Aboye Cubic Yar	ds
16. GENERATOR proper shippir according to a	dling Instructions and 'S CERTIFICATION: I he applicable international a	Additional Information of the control of the contro	nation the contents of this d, and labeled, and ment regulations.	to reduce the volum	n proper condit	tely descrition for trans	dem#14 Gallons  Ded above by sport by highway benerated to the	<b>@</b> =(	Listed Aboye Cubic Yar	ds
16. GENERATOR proper shippin according to a left three threat	dling Instructions and 'S CERTIFICATION: I he ng name and are classificated international are quantity generator, I charman health and the	Additional Information of the property declare that the declared packed, marked and national governmentiful that I have a ave selected the perion of the per	nation  the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small q, if I am a small q	dare in all respects in to reduce the volund dof treatment, storaguantity generator, I h	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	Listed Aboye Cubic Yar	ds
16. GENERATOR proper shippir according to a from a large economically future threat the best wast	dling Instructions and SCERTIFICATION: I he ng name and are classificated international at a quantity generator, I corpracticable and that I he to human health and the te management method	Additional Information of the property declare that the declared packed, marked and national governmentiful that I have a ave selected the perion of the per	nation  the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small q, if I am a small q	to reduce the volund of treatment, storaguantity generator, I hafford.	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	Listed Aboye Cubic Yar	ds
16. GENERATOR proper shippin according to a left three threat	dling Instructions and SCERTIFICATION: I he ng name and are classificated international at a quantity generator, I corpracticable and that I he to human health and the te management method	Additional Information of the property declare that the declared packed, marked and national governmentiful that I have a ave selected the perion of the per	nation  the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small q, if I am a small q	dare in all respects in to reduce the volund dof treatment, storaguantity generator, I h	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	Listed Aboye Cubic Yar	ds
16. GENERATOR proper shippir according to a ft I am a large economically future threat the best wast Printed/Typure Commentary	dling Instructions and 'S CERTIFICATION: I he applicable international as a quantity generator, I corpracticable and that I he to human health and the management method led Name	Additional Information declare that the declare that the declare that the declare that the declar de	nation  the contents of this digital displayed, and labeled, and ment regulations. program in place practicable method, if I am a small quime and that I can	to reduce the volund of treatment, storaguantity generator, I hafford.	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined to es the present neration and se Month Day	ds be and elect
16. GENERATOR: proper shippir according to a If I am a large economically future threat the best wast Printed/Typ.  17. Transporter Printed/Typ.	dling Instructions and 'S CERTIFICATION: I he may name and are classificated applicable international at equantity generator, I control to human health and that the management method is red Name  1 Acknowledgement method Name	Additional Information declare that the declare that the declare that the declare that the declar de	nation  the contents of this digital displayed, and labeled, and ment regulations. program in place practicable method, if I am a small quime and that I can	to reduce the volund of treatment, storaguantity generator, I hafford.	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined to es the present neration and se Month Day	ds be and elect
16. GENERATOR proper shippin according to a lf I am a large economically future threat the best wast Printed/Typ.  17. Transporter Printed/Typ	dling Instructions and 'S CERTIFICATION: I he on a man and are classificated practicable and that I he to human health and the te management method the dollar of the control of the contr	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volun to freatment, storaguantity generator, I hafford.	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined to es the present neration and se Month Day	ds be and elect
16. GENERATOR proper shippir according to a lift I am a large economically future threat the best wast Printed/Typus HT. Transporter HT. Tra	dling Instructions and specific applicable international as equantity generator, I or practicable and that I have management method the management method and Name  1 Acknowledgement and Name 2 Acknowledgement	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined to es the present neration and se Month Day	ds be and sleet
16. GENERATOR proper shippin according to a lf I am a large economically future threat the best wast Printed/Typulanter Printed	dling Instructions and specific applicable international as equantity generator, I or practicable and that I have management method the management method and Name  1 Acknowledgement and Name 2 Acknowledgement	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volun to freatment, storaguantity generator, I hafford.	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined it es the present neration and se Month Day  Month Day  Month Day  Date  Month Day  Date	ds be and sleet
16. GENERATOR proper shippir according to a following to the best wast Printed/Typut. 17. Transporter Printed/Typut. 18. Transporter Printed/Typut.	dling Instructions and specific applicable international as equantity generator, I or practicable and that I have management method the management method and Name  1 Acknowledgement and Name 2 Acknowledgement	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined it es the present neration and se Month Day  Month Day  Month Day  Date  Month Day  Date	ds be and sleet
16. GENERATOR proper shippir according to a following the best wast Printed/Typut. 17. Transporter Printed/Typut. 18. Transporter Printed/Typut.	dling Instructions and segment and the management method the management method and Name  1 Acknowledgement and Name  2 Acknowledgement med Name  2 Acknowledgement med Name	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature  Signature	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined it es the present neration and se Month Day  Month Day  Month Day  Date  Month Day  Date	ds be and select
16. GENERATOR proper shippir according to a following large economically future threat the best wast Printed/Typ.  17. Transporter Printed/Typ.  18. Transporter Printed/Typ.	dling Instructions and segment and the management method the management method and Name  1 Acknowledgement and Name  2 Acknowledgement med Name  2 Acknowledgement med Name	Additional Information of Packed, marked and national governmentify that I have a ave selected the perior of Packed in the perior of Packed in the perior of Packed Information	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small of me and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature  Signature	n proper condit ne and toxicity ne or disposal	tely describion for trans	dem#14 Gallons  Ded above by sport by highway generated to the evaluable to me w	<b>@</b> =(	e determined it es the present neration and se Month Day  Month Day  Month Day  Date  Month Day  Date	ds be and select
16. GENERATOR proper shippin according to a lf I am a large economically future threat the best wast Printed/Typ  17. Transporter Printed/Typ  18. Transporter Printed/Typ  19. Discrepancy	dling Instructions and 'S CERTIFICATION: I he on a man and are classificated practicable and that I he to human health and the termanagement method it will be management method it will be a compact of the management method in the management method in the management method in the management method in the management method is a compact of the management method in the man	Additional Information of the property declare that the declare that the declared packed, marked and national governmentify that I have a lave selected the property of the pr	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small quime and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature  Signature	ne and toxicity ge, or disposal lave made a g	tely describion for transof waste gourrently about faith ef	dem#14 Gallons  bed above by sport by highway generated to the evaluable to me w fort to minimize recommendations.	degree I have hich minimizary waste ge	e determined it es the present neration and se Month Day  Month Day  Month Day  Date  Month Day  Date	ds be and elect
16. GENERATOR proper shippin according to a lf I am a large economically future threat the best wast Printed/Typ  17. Transporter Printed/Typ  18. Transporter Printed/Typ  19. Discrepancy	S CERTIFICATION: I he no name and are classificated perfective international are quantity generator, I concern to the management method the management method and Name  1 Acknowledgement oved Name 2 Acknowledgement oved Name y Indication Space	Additional Information of the property declare that the declare that the declared packed, marked and national governmentify that I have a lave selected the property of the pr	nation the contents of third, and labeled, and ment regulations. program in place practicable method, if I am a small quime and that I can laterials	to reduce the volund of treatment, storaguantity generator, I hafford.  Signature  Signature  Signature	ne and toxicity ge, or disposal lave made a g	tely describion for transof waste gourrently about faith ef	dem#14 Gallons  bed above by sport by highway generated to the evaluable to me w fort to minimize recommendations.	degree I have hich minimizary waste ge	e determined it es the present neration and se Date Month Day Date Month Day Oliver Date Month Day	ds be and elect

#### STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 1L532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS  1. Generator's US EPA ID No.  WASTE MANIFEST  1. Generator's US EPA ID No.	Manifest Document No.	2. Pag of	required by Illinois	law.	shaded areas is not al law, but is required
Generator's Name and Mailing Address Location If Different Locatio	116575	IL B. Gen ID N	Sis Manifest Do 96640 erators II Lumber IOSI	96	Number FEE PAID IF APPLICABLE SIGOOL
Transporter 1 Company Name 6. US EPA ID N  Transporter 2 Company Name 8. US EPA ID N	umber	D. Tran	sporter's lumber sporter's Phon sporter's lumber		
Designated Facility Name and Site Address 10. US EPA ID N		G. Faci ID N	sporter's Phone lity's IL lumber (	111	) 11886
. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Num			13. Total Quantity <sup>2</sup>	14. Unit Wt/Vol	I. Waste No.
RO HEROLOUS WESTESSIED NOS. 9 NASSIT PETIT (DOU DOUT DOCK)	401	cmi	) 0090	7	EPA HW Number
					EPA HW Number
			1 July 1912		EPA HW Number
elegiani meganian dalam dia menganian menganian kembanan dia menganian dia menganian dia menganian dia mengani Menganjangan dia menganjan dia menganian dia menganian dia menganian dia menganian dia menganian dia menganian Menganjangan dia menganjan		1 47 28 7 2 4 4 7 4 4 4 8 7	Vongungo Kasasan An Talah Masa		EPA.HW Number
Additional Description for Materials Listed Above  1525 1528	nical English Paper Poddie St. Diacestics Ministrational English Market St. St. St. St. St.		lling Codes for m #14 コニソロ	Wastes (JS	S Listed Above
Special Handling Instructions and Additional Information	To particle to the				
nter a pat Pelledi i i territatriki pinapyi pit ku hisiografi ani pinapika sebat territori penin atradi pinapika 1777					
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are f proper shipping name and are-classified, packed, marked, and labeled, and are in all respects according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volu-	in proper condition turns in proper condition to the condition of the cond	ior transpo waste ger	rt by highway nerated to the de	gree I h	ave determined to t
economically practicable and that I have selected the practicable method of treatment, storage threat to human health and the environment; OR, if I am a small quantity generator. I have measte management method that is available to me and that I can afford.  Printed/Typed Name  Signature	or disposal current	lv availabi	e to me which mir	nimizes:	the present and futu
Line 12 12 12 12 13 12 13 13 13 13 13 13 13 13 13 13 13 13 13	勃斯拉	1/1			050\ 0 Date
Printed/Typed Name Signature Signatu	<u>. 2</u> 3				Month Day Year
Printed/Typed Name Signature  9. Discrepancy Indication Space		<u> </u>			Month Day Year
grandina in interessor della si in social participat della contrata. The many provides social contrata della participat della contrata della					
D. Facility Owner or Operator: Certification of receipt of hazardous materials covered	by this manifest e	xcent as	noted in item 1	9 1	Date

,		n LPC 62 8/81 IL532-0610	est.		AND SPE	PAL W	ASTE
Ē		EPA Form 8700-22 (Rev. 6	i-89)		rm Approved. OMB No	o. 2050-0	
Γ	UNIFORM HAZARDOUS  1. Generator's US EPA	Docu	anifest ment No.		, required b	oy Feder	shaded areas is not all law, but is required
2	WASTE MANIFEST TLO O13 3 Generator's Name and Mailing Address Location If D	<u> </u>	118		or sold by Illinois nois Manifest Doc		Number
,	Performal Constitutes Inc.			1	96641	18	FEE PAID IF APPLICABLE
İ	110. N. 2514 Now Metros Box IL W	143		B. Ge	nerator's IL Number I ( )		CONFIDENCES SEED SEED SEED FOR THE PERSON OF
1_	. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (	709) 44 - (LO			inumber   €] ≪: ansporter's _ &	eess on	delle de la companya
5	. Transporter 1 Company Name 6.	US EPA ID Number	:	ID	Number <sup>§</sup>	To Air	Control (Sept. 1) Chelle (Sept. 1)
L	7. Transporter 2 Company Name 8.	US EPA ID Number		2 - 2 to 1 2 to 2 to 2 to 2 to 2 to 2 to 2	ansporter's Phong ansporter's		8.6001 B
'	. Hansporter 2 Company Name	00 2.71.12 174			Number	internatio	
Ş	Designated Facility Name and Site Address 10.	US EPA ID Number		Saltigas	insporter's Phone	¥ (	
	Paris of Trus. Fr.				cility's IL Number (香) 多)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	TO TO COMPANY TO A STATE OF THE			SERVERS	cility's Phone (s	cod.	\$   <b>1</b>   <b>2</b>   <b>3</b>   <b>3</b>
-	US DOT Description (Including Proper Shipping Name, Hazard Clare)	West in do see November 1	12. Conta	Assett Hercally	13.	14.	A Read Street Control Control Control
	1. Co Bot Bosonphon (moreany respect company remains)	,	No.	Туре	Total Quantity	Unit Wt/Vol	Waste No.
	· Ka Hezendus Weste Solid, Nas.	- Control					Waste No. EPA HW Number  EPA HW Number  EFA HW Number
	,	<i>Ş.</i>	1300 1	2 3-	A P I SHA	- Sales	
	NAZUTI PETIT (DOUGOOT)	700.ki		E. Barre	00000	3	EPA HW Number
.   '	λ.		1				
		_			1     1   1   1   1   1   1   1   1   1		
+	Ç.						EPA HW Number
-	d.			<del> </del>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		EPA HW Number
	<b>.</b>						
10,000,000,00	J. Additional Description for Materials Listed Above	eningskou ekstelije	j de Haladi.		andling Codes for Item #14	Waste	es Listed Above
1000	(a) The Property of Science of the Control of th	arigues (1900) Arigues (1900)					
100000					Y = YM	U S	
			egus.				
	15. Special Handling Instructions and Additional Information	1					į
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this	s consignment are fully and	accurately	describe	ed above by		have determined to be
	proper shipping name and are classified, packed, marked, and labeled, and according to applicable international and national government regulations.	d are in all respects in prope	er condition	for trans	sport by highway		
	If I am a large quantity generator, I certify that I have a program in place economically practicable and that I have selected the practicable method of	t traatmant storade or disc	ഹദേധ curren	nıv avanı	able in the which in	mmze:	
	threat to human health and the environment; <b>OR</b> , if I am a small quantity waste management method that is available to me and that I can afford.	generator, have made a g	jood faith e	ffort to r	minimize my waste	genera	tion and select the best  Date
	Printed/Typed Name	Signature/	- Andrew Comment	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Month Day Year
7	A" Flick		The same of the sa	124	1		19611901
ľ	17. Transporter 1 Acknowledgement of Receipt of Materials			ļ\.			Date Month Day Your
TRANSPORTER	Printed/Typed Name	Signature		X			Month Day Year
Š	18. Transporter 2 Acknowledgement of Receipt of Materials	1	Syregist 1	1			Date
Ř	Printed/Typed Name	Signature	<u> </u>	C. Salar			Month Day Year
Ē							
	19. Discrepancy Indication Space						
F A C							
1							
L.	20. Facility Owner or Operator: Certification of receipt of hazardous m	naterials covered by this	manifest	except	as noted in item	19.	Date
Y	Printed/Typed Name	Signature					Month Day Year
	1	1					

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989; Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

P.O. BOX 19276

(Form designed for use on elite (12-pitch) typewriter.)

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

LPC 62 8/81 IL532-0610 EPA Form 8700-22 (Rev. 6-89) orm Approved, OMB No. 2050-0039

<u> </u>	UNIFORM HAZARDOUS Doct	anifest iment No.		nge 1 Information required by Illinois	by Federa	shaded areas is not at law, but is required Number
	3. Generator's Name and Mailing Address Location If Different		l.	nois Manifest Do <u>96641</u> enerator's IL	cument 24	FEE PAID COLOR OF PAID
	4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"	15	. ID	Number  이글 ansporter's	1.13	
	5. Transporter 1 Company Name 6. US EPA ID Number	-	/ ID	Number ansporter's Phon		
	7. Transporter 2 Company Name 8. US EPA ID Number		E. Tra	ansporter's		
	Designated Facility Name and Site Address     10. US EPA ID Number		127(1597)	Number Insporter's Phon	e í	
	9. Designated Facility Name and Site Address 10. US EPA ID Number		G, Fa	cility's IL		
	The Control of the Co		450000	Number   <b>&amp;</b>   <b>&amp;</b> acility's Phon <b>e</b> ∰	magalett abstella	11181081
	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta		13.	14.	<u>•</u>
		No.	Туре	Total Quantity	Unit Wt/Vol	Waste No.
G	a K.Q. Hazardous Whate Solid, nos, 9 LA 2017 PETE (DOOD DOOD)				1	Waste No. EPA HW Number G
N	BOOD DOOD ITEST TOE AL	(X)(	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	00010	100	0000
E R	b.		,			EPA HW Number
A				: 1 1 1 1		
T O	C.					
R				[ ] [		
	d.					EPA HW Number
-	J. Additional Description for Materials Listed Above			indling Codes to	· Waste:	S Listed Above
·  .			11.3	"\"		
			350 feb			s Listed Above
		245 II 30 E 4 196			10000000000	
	15. Special Handling Instructions and Additional Information					- Agricular
						2
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and	accurately o	describe	ed above by		
	proper shipping name and are classified, packed, marked, and labeled, and are in all respects in prope according to applicable international and national government regulations.					ave determined to be
	If I am a large quantity generator, I certify that I have a program in place to reduce the volume and economically practicable and that I have selected the practicable method of treatment, storage, or disp	osal current	lv availa	able to me which m	inimizes	
	threat to human health and the environment; <b>OR</b> , if I am a small quantity generator, I have made a g waste management method that is available to me and that I can afford.	ood faith ef	fort to n	ninimize my waste	generation	Date  Month Day Year
*	Printed/Typed Name Signature	i Salama Maria	A A			Month Day Year
	17. Transportor 1 Askanyuladrament of Passint of Materials	The same	1			Date  Month Day Year
Ŕ	17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name \ Signature \ Signature	,-~. <del>\</del>	ì			Date Onth Day Year
Ñ	Ton Loils	Sim	Ž.			OTROOL
P O	18. Transporter 2 Acknowledgement of Receipt of Materials	1	1			Date
TRANSPORTER	Printed/Typed Name Signature		U			Date  Month Day Year
	19. Discrepancy Indication Space					
FA						B
FACIL						{ -
1 1	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this	manifest e	xcept a	as noted in item	19.	Date I
Y	Printed/Typed Name Signature					Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PO BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-676

State Form LPC 62 8/81 IL532-0610

AND SPECIAL WASTE

EPA Form 8700-22 (Rev. 6-89) orm Approved, OMB No. 2050-0039 LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) 3 Manifest 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required UNIFORM HAZARDOUS Document No case by Illinois law. WASTE MANIFEST A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different 0 and controlled JON 25th Ave Generator's II ID Number | ( 4. \*24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS\* Transporter's cal 5. Transporter Company Name 6. ID Number Also believe the Transporter's Phor the 7. Transporter 2 Company Name 8. Transporter's **ID Number** Illinois F. Transporter's Phone ( US EPA ID Number 9. Designated Facility Name and Site Address G. Facility's IL Office English Marin Ma ID Number **针:海口中的以为海域面** H. Facility's Phone Marian L. Maria 9 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 14. Unit Containers Emergency Waste No. Wt/Vo Quantity EPA HW Number G E  $\infty V_{\mathcal{O}}$ N EPA HW Number Response E h R APRILOY & PROPE BEAGE IN A T EPA HW Numbe C. THE RANGE OF THE SEASON NAMED IN 0 at 217 / 782-7860 and the National Response R **FPA HW Number** Belle transport and a contract contract of the ngalaging byg nagaging a new as bodan sela aftila saklya nagasin K. Handling Codes for Wastes Listed Above Additional Description for Materials Listed Above 15. Special Handling Instructions and Additional Information ober Niemski. M. C. in Principle, Alf, consequence etcollings REOCHED ONLY FOR BAZARNOGENBESTE Three such and no Sectionals go on the Mandaca and I 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Center at 800 / 424-8802 Month Day Year Signature Printed/Typed Name WILLIAMS ... 17. Transporter 1 Acknowledgement of Receipt of Materials Date TRANSPORTER Month Day Year Signature Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Date Signature Month Day Year Printed/Typed Name or 202 / 426-19. Discrepancy Indication Space tiskami Mit agenes, etë torretagis e ështet versë të kështë M Date Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Year Ý Printed/Typed Name

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

FAX		Date 6/4	4/01
		Number of page	es including cover sheet 2
TO:	Jerry Farmer National Castings	FROM:	Colletta Campbell Envirite of Illinois, Inc. 16435 Center Ave. Harvey, IL 60426
Phone Fax Phone	863-0665	Phone Fax Phone	(708) 596 <b>-704</b> 0 (708) 596-7045
cc:		E	
REMARKS:	☐ Urgent ⊠ For your review	☐ Reply AS	CAP
Jerry.			
Attached ple Envirite of III	ase find the certificate of disposal for the inois, Inc. on manifest #IL9664054 on 5/	dust collector 17/01.	bags which were shipped to
If you have a 7040.	any questions or require any additional in	formation plea	se contact me at (708) 596-

This certificate is to	verify the wastes specified on Manifest # <u>809</u>	<b>3</b> 9
	rly disposed of in accordance with all local, state and	
	of" means either: 1) Burial or 2) Processed as specified in 4	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA LD. # MID000724831)	Wayne Disposal, Inc. (EPAI.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 4811 I	

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature:\_\_\_



P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

ASE TYPE (Form designed for use on elite		EPA Form 8700-22 (R	The state of the s		Approved, OMB N		THE STATE OF THE S
UNIFORM HAZARDOUS WASTE MANIFEST	er fall of the Marie School	2317761 Doc	Manifest cument No.	2. Page of	required b Illinois law	y Federal	shaded areas is no law, but is required b
Generators Name and Mailing Address NATIONAL CASTING TIVE 110 NORTH 25TH AVENUE MELROSE PARK, IL 60160	Hn: (1) FI	n If Different いん		IL	rator's IL	93	umber FEE PAID IF APPLICABLE
*24 HOUR EMERGENCY AND SPILL ASSI	STANCE NUMBERS*			C. Trans	porter's	1. 数字数 15. AM	232773-IL
Transporter 1 Company Name SET ENVIRONMENTAL, INC.	6.	US EPA ID Number ILD981957236			umber sporter's Phone	Cate to the Vicini	537-9221
Transporter 2 Company Name	8.	US EPA ID Number		E. Trans	sporter's umber		
Designated Facility Name and Site Address	. 10.	US EPA ID Number	"	F. Trans	sporter's Phone	( )	
ENVIRITE CORPORATION - 16435 S. CENTER	i.L			ID N	ty's IL 03 umber	1 1	1 1 0 0 0 1 1 1 1
HARVEY, IL 60426		1L0000666206	100	H. Facil	ty's Phone (	08 5	96-7040
. US DOT Description (Including Proper Shi	pping Name, Hazard (	Class, and ID Number)	12. Conta	iners Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
RQ HAZARDOUS WASTE LIQUI	D, N.O.S.	(LEAD,	The state of the s				EPA HW Number
CADMIUM) 9: NA3082; PG III; (D006	.D008)		001	TTO	0511	9	Doole
							EPA HW Number
	100						EPA HW Number
					1.1.1.1.		EPA HW Number
					1111		
Additional Description for Materials Listed A	k; #H4708;			In Ite	lling Codes for m #14	vvastes	Listed Above
5. Special Handling Instructions and Addition 11A. ERG# 171	nal Information LAND BAN ATT	AC'HIZO					
GENERATOR'S PHONE # (708			4				
GENERATOR S FROME # (100	7,34470073	JET LAMBOURE	1 / / /	77-4	3-30i/-		en de South and Colored
<ol> <li>GENERATOR'S CERTIFICATION: I hereby proper shipping name and are classified, page</li> </ol>	ked, marked, and label	ed, and are in all respects in pr	ind accuratel oper conditio	y describe n for trans	d above by port by highway		
according to applicable international and nat	onal government regula at I have a program in	ations.  place to reduce the volume an	d toxicity of	waste gen	erated to the de	gree I ha	ive determined to
be economically practicable and that I have and future threat to human health and the el	nvironment; OR, if I am	a small quantity generator, I ha	or disposal c ve made a g	urrently av ood faith e	ailable to me what fort to minimize	nich minii my was	nizes the present te generation and
select the best waste management method t Printed/Typed Name	nat is available to me a	Signatuje /					Date Month Day Y
AFINE		H. +/10	$\mathbb{Z}K'$				2/8/4/8/0
7. Transporter 1 Acknowledgement of Recei	pt of Materials	The second secon					Date
Printed/Typed Name		Signature	***				Month Day Y
8. Transporter 2 Acknowledgement of Recei	pt of Materials		<b>.</b>				Date
Printed/Typed Name	+ ( - 1	Signature					Month Day Y
Discrepancy Indication Space	NETT - STEEL AND			1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1			1 1 1 1 2 1
9. Discrepancy Indication Space							
0. 5-10. 0 0 0		and the second s		1 A 2 2 2 1 S	d in itom 10		Dete
Facility Owner or Operator: Certification of Printed/Typed Name	or receipt of nazardous	s materials covered by this ma	пшеѕі ехсер	n as note	u iii ilemi 19.		Date Month Day Y
							1.1.1.1

### LAND DISPOSAL NOTIFICATION/CERTIFICATION FORM for PROCESS WASTES

#### ENVIRITE

OF ILLINOIS, INC.



purpose of this document is to provide notification - and if appropriate, certification - relating to the waste referenced

		posal restrictions codified			
sections as applical	ble. To complete S	n: For <u>each</u> waste stream refe lection 7, please note that onle further instructions. Complet rulation. Signatures must be pr	y one type of nonincation (a te Section 6 only if a waste	ind/or cerdification) will a subcategory applies. C	apply to a waste stream, so omplete Section 8 only for
	waste,	and/but if.,		the	n also complete section
is F or	K code waste,	and it fails LDRs,			9
	r K code waste,	and it meets LDRs,	) ) 1 h	- 9- I II C-	10
	code waste,		the hazardous characteristor the D code, but fails for		11
	O code waste, O code waste,	and it meets LDRs for	or both the D code and all	UHCs,	12
was I	J code waste,	2000 12 22 12 12			
SECTION 1					
Generator's Nat	me: NATIONA	IL CASTING, INC		's EPA#: ILDO7	
Pick-up Address	: 110 No	RTH 25th			0160
Manifest Docum	nent Number:	52993	State Man	lfest Document Numb	per: IL935Z993
SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7
Manifest Item #	Envirite Approval #	EPA Hazardous Waste Number ("Waste Code")	Treatability Group: Wastewater (WW) or Nonwastewater (NWW)	Subcategory (if applicable)	Type of Notification/ Certification (fill in the blank)
ila.	H4708	Doo6, Doo8	NWW	NA	See section
1101.	111100				See section
					See section
					See section
SECTION 8	UHCs, or indicat	nzardous Constituents (UE) e that they are identified in an	arrachment to this form.		
SECTION 9	To be land dispo	sed, this waste must meet appli	icable land disposal restriction	13 treatment standards in	40 CFR 268 Subpan D.
SECTION	Printed Name:	HFIICK	Signature:	Tuck	Date: 00101
SECTION 10	through knowled	penalty of law that I have per dge of the waste to support thi obpart D. I believe that the info enalties for submitting a false of	is certification that the waste	accurate, and complete. I	am aware that there
	Printed Name:		Signature:		Date:
SECTION 11	meet universal the possibility of Printed Name:	renalty of law that the waste hat the control of law that the waste had the control of law that the waste had the control of law that the law that t	are that there are significant Signature:	penalties for submitting	a false certification, includin
SECTION 12	hazardous chara S 268.48 Unive	penalty of law that the waste hat acteristic and that underlying his all Treatment Standards. I ameluding the possibility of fine a	azardous constituents, as det n aware that there are signific and imprisonment	HIER III 4 TOOLE(I) HELL	
	Printed Name:		Signature:		D. 10 1-11

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761>

State Form LPC 62 8/81 3 1532-9610

E B

EPA Form 8700-22 (Rev. 9-88) (Form designed for use on elite (12-pitch) typewriter:) EASE TYPE Information in the shaded areas is not 1. Generator's US EPA ID No. 2. Page 1 **UNIFORM HAZARDOUS** required by Federal law, but is required by Illinois law. ILD07231776 **WASTE MANIFEST** 3. Generator's Name and Mailing Address

NATIONAL CASTINGS ZIK Location If Different: 110 N. 25th AVB, MC-ROJE PARK, IL. GOIGO ) 344-0675 US EPA ID Number 5. Transporter 1 Company Name <u>0000 66650</u> ENVIRITE OF IL. 7. Transporter 2 Company Name 9 Designated Facility Name and Site Address US EPA ID Number. ENVIRITE OF IL. INC. 16435 S. CENTER TARVEY IL 60426 11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12 Containers No. Type a 11 RO" HAZARDOUS WASTE Sold NOOS, 9 NA 3077 PGIII (Dud6) (Duo) (Doos E B NABOTIT PETA (DOOG) (DOOD) (DEBRIS 0 217/782-3637 医蝶呤 双环 奎吉斯姆 直膜炎 違 and a negligible property present free affigures, refer based on the following or as some J. Additional Descriptions for Materials Listed Above 45 to 1522 = Gallons Cubic Yards Special Handling Instructions and Additional Information National Response 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, Deertify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Date Month Day Printed (Typed Name 04040 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Signature 04049 18. Transporter 2 Acknowledgement of Receipt of Materials Date ORTER Month Day Year Signature :: Printed/Typed Name 整体射线机 化异磷矿 或人类化 19 Discrepancy Indication Space THE PUBLIC PROPERTY OF THE PERSON OF THE PER ERFELICIES (C) PER EXCLO 20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Printed/Typed/Name

TEYAS NATURAL RESOURCE CONSERVATION COMMISSION P.O. Box 13087

Austin, Texas 78711-3087





1	se print or type. (Form designed for use on elite (12-pito	n) typewriter.)	OC. STATE			arm approved. OMB		
۱۸	Oldi Oldi IIVEVICOOO	. Generator's US EPA ID	I Docu	enifest ment No.	2. Pag	1111011111		the shaded areas d by Federal law.
7		I. T. D. O J. J.		-	A: Sta	te Manifest Docu	ment N	umber
Ш	3. Generator's Name and Mailing Address					0261		
П	NATIONAL CASTING, INC. 110 NORTH 25TH AVENUE			-		to Conominate II	1	
					J. 012			99917
	MELROSE PARK: IL 60160 4. Generator's Phone ( -08 ) 344-067	5 6.	US EPA ID Number		C Sta	te Transporter's	ID-	40005
П	5. Transporter 1 Company Name		) 9 8 1 9 5 7					
	SET ENVIRONMENTAL, INC.	1. D. I	US EPA ID Number		E Sta	te Transporter's	ID ·	H0235
П	7. Transporter 2 Company Name	IN ITIS	98195)			nsporter's Phone		
	9. Designated Facility Name and Site Address	10.	US EPA ID Number			ite Facility's ID:		18 201 V 51 - 17 4
П						ENSON ASSEL		
	TREATMENT ONE 5743 CHESWOOD STREET				H.Fac	Ility's Phone	Jang M.	AND SOME SET FROM THE
	HOUSTON, TX 77087	T N 1	0 0 5 5 1 3 5	. 3. S. S	10,1		(71.	3) 645-8710
	11A. 11. US DOT Description (Including Prop.	er Shipping Name, Haza	rd Class, ID	12. Contair	iers	13. Total	14. Unit	(Waste No.
	HM Number and Packing Group)			No.	Type	Quantity	Wt/Vol	AVVEISTE NO.
	a. COMBUSTIBLE LIQUID, N	.O.S. (NAPHTAL)	ENE)				P	The second secon
G	2014, 213,1002, DC LTI			201	Dm	0.0.4.0.0	1	OUTS2031
DOTPERSED	COM; NA1993; PG III	0.						OUTS119E
E	10 WAST	E PAINT					P	MULTITARY
A	X 3 UN 1262	PG 1 (1	2001	9.03	D.M	0.1.2.0.0	1	OUTS 209 H
0				013		13 2005		Water Na.
Ι	CTOXIC LIQUIDS, DR		formaldehid			0001200	P	0.00-9 19
	Phenol) 6.1 UN 2.	310 PG II		0.0	Dm	0.0.4.0.0	1	PULD 2 11
-4	JO.COMBUSTIBLE LIQU		PHTHAIOND)					OUTS11910
1	C. Composition	10,11.02. (10)	, A TITAL CORE J	001	~_	101100	P	Opt Tigur
1.	com; NA 1993:16.		-	09.	אט	0.0.4.00	1	
1	J. Additional Descriptions for Materials Listedy  11a. WASTE PART 3 - TECHN  11b. WASTE PART 3 - TECHN  11c. CHEM RE 2 95 7 35.	bove Transmission	a company of the state of the s	the street was	K.Ha	ndung Codesion	Waste	Tested Above
	11a. WASTE PART 3 - TECHN	ISET ACTIVATOR	; #1B-30276;	ره بر	IIA			in Sandard
1	-113 WASTE PAINT: 32	SS 110. WASTE	PAM 2-A FOR	P.1580	OR	1 - 8C / 1C)	LAM NOTESTAN	
٣	UC. CHEM REZ 95785.	3-10-30168,1	15, 1x 35 , 1K	3 3 3	~1	1202		
	15. Opecial Figures	al Information						
	1 114. 1200 (20	C 13 13 3						
	IND. ERGH 128 EMERGENCY CONTACT # 87							
	AC ARMER ARRANG OF PRINCIPLE A TION I I haveby do	clare that the contents of thi	s consignment are fully	and accurat	ely dea	cribed above by pro	oper ship	ping name and are
	classified, packaged, marked, and labelled/plac	carded, and are in all respe	cts in proper condition i	or transport	cy nigi	Iway according to	аррисао	ig memational and
	triangle and the second	have a program in place to	reduce the volume and	toxicity of w	aste ge	nerated to the deg	ree I hav	ve determined to be
	economically practicable and that I have selected future throat to human health and the environment	ad the proclicable method of	Treatment storage, or t	II SOUSE CUI	GILLIA GI	THIN OIL OF MINCH	11 11 101 101 111 112	COS INO PICACINI AND
	the best waste management method that is ava	ilable to me and that I can a	flord.	- 7			6	
4	Printed/Typed Name / 1	:	Signature /	///-	. //	7		Month Day Year
V	H.Flick		at	Lic	H			1.0 8 1 2.0
T	17. Transporter 1 Acknowledgement of Receipt	ot of Materials						Date
A	Printed/Typad Name	ON BEHALL	Signature	/				Month Day Year
200		1 0F JET	1					0.4
	16. Transporter 2 Acknowledgement of Receipt	ot of Materials		. /	//	<i></i>		Month Day Year
OFTER	Printed Typed Name	127	Signeture	NA	-			10712310
Ä		U	July	17				100101
	19. Discrepancy Indication Space				~~	ATT CDT ().	. 1	
F	11B: OK TO CORRECT TEXAS W	ASTE CODE # PER	VERBAL BY S	UE MANI	MC (T2)	AT CET OL	$\sim$	
	11D: OK TO CORRECT TEXAS W							
L	20. Facility Owner or Operator: Certification of	receipt of hazardous ma	terials covered by thi	s manifest	except	as noted in Item	19.	
LIT	<b>}</b>							Date
Y	Printed/Typed Name		Signatura	ali	١	28 7		Month Day Yea
	Laura Mrah-	<u> </u>	0109 3				arata-	[] [30]0]
TA	JBCC-0311 (Boy 07/01/97)	White - original	Plnk-TSD Facility	Yellow-Tr	anspor	ici oleen-del	erator 6	mat copy

. AUG-10-2001 16:53

→ SET DN

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION P.O. Box 13087

Austin, Texas 78711-3087





100	: a print or type. (Form designed for use on elite (12-pit	ich) typewriter.)	OC.			roved, OMB I		
AT	UNIFORM HAZARDOUS	1. Generator's US EPA III		anifest ment No.	2. Page 1 of 1			e shaded areas by Federal law.
7	WASTE MANIFEST	1 L D O 1 2 3	<u> </u>	7 9 7	A State Ma	rifest Docum	nent Nun	nber
П	3. Generator's Name and Malling Address				orania i time	12612	218	
11	NATIONAL CASTING, INC. 110 NORTH 25TH AVENUE			}	B. State Ger		ar a grad	
	MELROSE PARK. IL 60160 4. Generator's Phone (708) 344-06	75				. 18. 3 1 15 u je	e weapen	99917
	5 Transporter 1 Company Name	6.	US EPA ID Number	ess was sa	C. State Tra			40835
	SET ENVIRONMENTAL. INC.	I L	D 9 S 1 9 5 7		D. Transpor			537-9221
H	7. Transporter 2 Company Name	- 8	US EPA ID Number		E. State Tra			40835
	SET ENVIRONMENTO	The the	89819572	1365 ·	F. Transpor G. State Fac		871-	537.922/
	9. Designated Facility Name and Site Address	s 10.	US EPA ID Number					50267
	TREATMENT ONE				H. Facility's			30207
	5743 CHESWOOD STREET HOUSTON, TX 77087	1 T N	D O S S 1 3 5	. 3. 8. 3	1	Marafia a s	(713)	645-8710
	Ter us por o vision (Including Pro			12. Contain	nom	13. Total	14. Unit	1.
	HM Number and Packing Group)	per dripping rearie, reas		No.	1-		Wt/Vol	Waste No.
	a. WASTE CORROSIVE LIQU		ROANIC: JU				0	01
1	N.O.S. (SODILM STETC	ATE NON-REGUI	ATED LIQUID	0.02	0m 0.0	8.0.0	7	OUTS1101
GEZERATOR	8: UN3266; PG II  b. TOXIC LIQUIDS, ORGAN	TC V O C (FOD	MAI DELVIDE		Pari	)		
E	PHENOL)	IIC, N.O.S. (IOA	MALDEITDE:	'		400	P	
A	6.1; UN2810; PG II			000	DF 0.0	300	1	OUTS2191
C								of the state
1	c. RQ, PHENOL SOLUTIONS	)		0 0 7		200	P	. U
	6.1; UN2821; PG III			0.0.2	Dm 00	. 8. 5.0		-ourszo81
1	d. COMBUSTIBLE LIQUID.	N.O.S. (NAPITILA	S. EU				0	OUTS11910W
1	COM: IN1993; PG III	(NAPHTHALENE) C	OM: 1993;PGII	10.0.1	D.M 00	.400	T	OUTS119H
		THE PERSON NAMED IN THE PARTY OF THE PARTY O	O. S (142792) - 1 2/2 M 71/ 748 A.	Strand Charles	K Handling	Codes for	Nasias (A	Sad Above
	J. Additional Descriptions for Materials Listed 11a FORSEO CARSIL SAND 11b CHEM REZ 057853; #1	RINDER #18-30	数1000000000000000000000000000000000000	5)	IVA L	and I	183	noie
1	11b CHEM REZ 057853; #1	B-30168; 12555	To the state of th	populari sa	4 35 - C 48 - 5	-	36-11 - 41.45	10000000000000000000000000000000000000
1	11b. CHEM REZ 05/853; #1 11c. WASTE TECHNISET RES 11d. WASTE PART 2 - TECE	SIN PART T: #1B	30434; 2 > 85		ucar	११५१ -	nd:	mial
	15. Special Handling Instructions and Addition		5717	18				
1	11A. LAND BAN ATTACHED	7	11D. ERG# 1	123				
	11b. ERG# 153		EHERGENCY (	TONTLOT 4				
	11c. ERG( 153 16. GENERATOR'S CERTIFICATION: I hereby d	eclare that the contents of th	is constanment are fully	and accumt	ely described	above by pro	per shippi	ng name and are
-	cincelled nackaged marked and labelled/of	lacarded, and are in all respi	ects in proper condition	for transport	by highway a	ccording to a	pplicable	international and
	national government regulations, including app If I am a large quantity generator, I certify that		reduce the volume and	toxicity of w	vaste generate	d to the degr	ee I have	determined to be
	l	and the empiration method of	i trantmon morana or i	1150005311 CUIT	GILLY SYDIEDORG	IO IIIO WILLIGH	111111111111120	י מוט פייט וויטטטות טיוט
	future threat to human health and the environ the best waste management method that is an	ment: OH, it I am a small que vailable to me and that I can :	afford.	ade a good	A A	minimize my .	10010 3011	
T	PrintegaTyped Name -		Signature	2 //	/</th <th></th> <th></th> <th>Ionth Day Year</th>			Ionth Day Year
V	HELICE		(17	Lu	ck_			0.7 [8] 0.1
T	17. Transporter 1 Acknowledgement of Rece	elpt of Materials						Date
A	Printed/Typed Name		Signature					fonth Day Year
200	WIM WILLIAMS		St.					Date
		eipt of Materials	2' /	7 1	11111			Ionth Day Year
OHTER	Printed Typed Name AD C	10	Signature	illy	UB-		E	10125101
Ä		20			11			, ,
	19. Discrepancy Indication Space  11A: OK TO DROP DOO2 EPA C	ODE AND CHANGE	TEXAS WASTE O	ODE #-	SI SI	EE ATTA	CHED.	
F	11D: OK TO CORRECT TEXAS W	ASTE CODE # PER	VERRAL BY SU	E MANN	-			. DESCRIPTIO
	COPPECT VI.					ted in Item		
L	20. Facility Owner or Operator: Certification	of receipt of hazardous m	aterials covered by the	s manifest	except as no	иеа шигеш		Date
LITY	-		Signatura				,	Aonth Day Year
	Printed Typed Name	4	Row	cul	My	2		130101
_	I awayingh	White - origina		Yellow-Tr	ansporter	Green-Gen	erator's fli	rst copy

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-8761 P.O. BOX 19276

E TYPE	(Form described for use of		's US EPA ID	PA Forms 8	Ma	nifest	2. Page	recuired	lon in the s by Federal	haded are	aas is no a require
	E MANIFEST	1770	713.1	7761	163	772	of /	by Illino	s law.		
Sanorotor's Nan	ne and Malling Address		ocation If Diffe	enerit:							
				99/ /	ut la m		eranila (j				
n M. L	shave. N	nelrose p	Mark 18 1 1	الم المسمر	gres er						
enerator's Pho	ne ( 200 )	344-062	<u> </u>	440000							
ransporter 1 C	ompany Name	_	6.	US EPA ID							
ANDI	B OF ILL.	The .		0006	-	(2)	74				
ransporter 2 C	ompany Name		8.	US EPA ID	) Virimber	40.00					
:					-						
esignated Fac	ility Name and Site Ad	dress	10.	US EPA ID	Number						
WIRIT		TCENTER	2			Jan J					
6435 S		Δ.	177	Doeal							
HARUE	0. IL, 60	426				-12 Conta	inore	13	. 14.		
US DOT Desc	ripion (Including Prop	per Shipping Name,	Hazard Clas	s, and ID	Number )	· •	· • •	Total	Unit Wt/Vol		
	i	1	<u> </u>	4 / 44 4		No.	Type	Quantity	VVI / VOI		
'RO"	HAZARDU	5 WASTE.	Solid	Mr. On J	, 7	45.	100	::*1			
* F		12 116	4 1	2.02		~	- BA-	2002	s 2.		
14 337	7 PGULL	Deste Da	044	1005 J		F-CO-P	-075				
- · · ·				·		1		,	1		
		,		1. 1. 19				ra <sup>lit</sup> ati ni ne	.		
				.``		***************************************			1977 ST \\$\$		
	, la			1.55	.'*		1 1	ı			
			. [		•			, Lii			
									y 7		
		1				}		•			
1				1 i			1.4	1 1 1	- By 6		
				1							
5. Special Hand	ding Instructions and /	Additional Information	יי יי	ur in de la companya di salah br>Manjarah							
ļ		9			į.						
					1.		ė	1. 22.3			r=r=s
							daearhad	ancina hir	<u></u>		
proper shippi according to If I am a larg economically	I'S CERTIFICATION: I han graine and are classifies applicable international as quantity generator, I ce practicable and that I ha to human health and the management method to	nd national government artify that I have a prog ave selected the practic	regulations. gram in pisce à icable method d am a small dus	o reduce the to treatment, and the control of the c	volume and	toxicity of	waste gen	erated to the c	legree I ha nich minimi ny waste g	ve determine peneration	Date
Printed/Typ	ad Nama			Signaturé	$\bigcirc$	L-	Em	lia		70°4	Day Z
22	n lett	24.45				W PL					Date
7. Transporter	1 Acknowledgement	of Receipt of Mater	ials `							Month	
Printed/Ty	oed Name	a :		Signature			-			79	$\tilde{z}i$
7-2	- DIBAH C				<u> →</u>	ильежности у				1 1 2	Date
8, Transporte	2 Acknowledgement	of Receipt of Mater	iala							Month	
	ped Name	1 1-13	***	Signature	the same of the sa	1	v. Manuface	•		( WHEN ILE !	, July
Printed/ IV:	* * * * * * * * * * * * * * * * * * *	4	www.wy.company.com						***		hamiyi
Printed/Ty	u Iodication Space						предини		;		
	A II STICOROLL COMMON	•			!	`	, manufacture .				
Printed/Tyl	A II COCCUCIO CARGO	and the second second					]				
	y II Dictains Caree						£		sí.		
19. Discrepand	7. · · · · ·		- POROMON - PROPERTY -		1.	12a la 1	··········	<b>A</b>	*A		''Daile
19. Discrepand	7. · · · · · ·	ification of receipt o	n hazardous i	naterials cov	vereo b) l	ls manifes	і ёхсех	as noted in t		I Afranci	Date h Osv
19. Discrepand	vner or Operator: Cert	ification of receipt o	of hazardous i	materials cov	vereo b) !!	ls manifes	Pexcell	as noted in it	4 em 19		Date

COPY 1. TSD MAIL TO GENERATOR COPY

	THE REPORTED LICENSING LICENSING PROJECTION AND THE PROPERTY OF THE PROPERTY O	
Z.	26/38 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
- 137	P.O. BOX 19276 State Form LPC 02 8/81 IL532-06 10	
7	AND	39, Expires 9-30-91
L	Manifest 2 Page 1 Information in the	anaded areas is no 🗗 🍮
1		I law, but is required
,	WASIE MANIFEST	1
	3. Generator's Name and Mailing Address Location if Different:	4 2
Ш	NATIONAL CASSINGS FRE MELROSE PARK, EL. GOLGO	<b>#</b>
П	110 N. 25th AVE. MELROS PARKS	###
	4. Generator's Phone ( 708 ) 344-6675	
	5 Transporter 1 Company Name U. US ETA ID Manual	- 2 2
	FINIRITE OF IZ. INC. ILDOOD 660206	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	7, Transporter 2 Company Name 8. US EPA ID Number	8 19
	9. Designated Facility Name and Site Address 10. US EPA ID Number	3
	ENVIRUE OF IL. INC.	The state of the s
		2
	MADUEN TX, 60426 IL-DOOG666206	5 kg
П		9
	11. US DOT Description (Including Proper Shipping Name, riezaro Class, and ID number)	
1	No. Type Quantity Wt/Vo.	- · · · · · · · · · · · · · · · · · · ·
G	" URO" HAZARdous WASTE SOLID NOOS. 9	Φ
E		
N	NA 3077 PGUI (Darb) (DO07) (DO08) 001 CM 000202	<u> </u>
E	b.	_
R		0
A		<u> </u>
T	C.	) IS
0		Ď
R		
1		
İ		
		1.0
١.		
1	TEACHTIONAL BACTOR COLOR BUILDING AND TAXON TO A STATE OF THE STATE OF	
	La la vale de la companya de la companya de la companya de la companya de la companya de la companya de la comp	
	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
11	15. Special Handling Instructions and Additional Information	
1		
		· · ·
	16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by	
$\ \cdot\ $	proper phinding name and gradied, packed, marked, and modeled, and all in an respects in proper of the	** 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:
	according to applicable international and national government requiations.	e determined to be
П	If I am a large quantity generator, I certify that I have a program in place to reduce the vocation of the state of the st	es the present and
11	Advisor the part to human health and the advironment ON, it I am a small quality generator, more a good and the province	meration and select
	the best waste management method that is available to me and mat I can amore.	Month Dev Year
	Printed/Typed Name Signature	120 Lho
V	John Lerroger	Date //
1	17. Transporter 1 Acknowledgement of Receipt of Materials	-Month Day Year
A	Printed/Typed Name Signature	/a // A
5		1 WOLLAN
5 6	the of Charles of Restricts	Date :
1	Printed/Typed Name Signature	Month: Day:: Year
	Printed/Typed Name Signature	
}	19. Discrepancy Indication Space	1 3
Ι.		×
	<del>-</del> 1	

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this mapliest except as noted in item 19.

Printed/Typed Marge

, SPRINGFIELD, ILLINOIS 62794-0276 (217) 782-6761

State Form	LPC 52 8/81	IL532-0610	
			From Assessment Display to 20070 Doctor Complement

UNIFORM	Tazardous  Tazardous  Manifest	1 Generator's US EF		Manifest	2 Page 1 Informet	tion in the ahaded areas is not by Federal law, but is required as law.
3. Generator's Name a	and Malling Address	Location if				2
110 N. 251	HAVE ME	Rose DARK,	N. 601	60		### ### ### ### ### ### ### ### ### ##
4. Generator's Phone 5. Transporter 1 Com	pany Name	4-0625	, US EPA ID N			<u> </u>
7. Transporter 2 Com	A IL IK.	8.	LO BOOK (A/A) US EPA ID NO			ne
		10.	US EPA ID N	mhae		
9. Designated Facility  ENVIROR	Name and Site Address	. €	QQ EFA ID IN	CHILDEN	andra State of the State of th	ois C
16435 5.	CENTER CZ. 60426	12	20006	66206		
11. US DOT Descripti	ion (Including Proper St	BANKETTOWN		nber J. 12.Contal	Total	14. Unit
a UDO" Hu 2	-ARclous W	ANK SALA	N-0.5 9	No.	Type Quantity	Wt/Voi
No 3027	D= 111 /D	de) (Dasz) (	/A_B)	1 . 1	-M 00020	2
E   1/19/ 3/3/1/	FS# COO	OS) (UM E) (	<u> </u>		0	
a.				' .		Sp)
G. C.			***************************************			nse
A						2
d.	1					
			a), olgalantsobsseksir (A) (B)		ESTER TO THE STATE OF THE STATE	
J Sa # 2	riptione/for Malerials			DVIVE TO THE	A The Control of the	
						Barrier State of the State of t
The March Services in the Committee of t	Instructions and Addition	ad laternation			rent de la companya de la companya de la companya de la companya de la companya de la companya de la companya La companya de la co	
15. Special renoling	I Instructions and Addition	· ·				
16. GENERATOR'S C	ERTIFICATION: I hereby de ame and are classified, pack	tare that the contents of t	his consignment are fi nd are in all respects in	ully and accurately de n proper condition for	escribed above by transport by highway	(n)
according to applic	cable international and natio	hal government regulations	i. Se to reduce the walling	ne and toxicity of wa	iste generated to the de	agree I have determined to be
economically prac	I I I I I I I I I I I I I I I I I I I	cted the practicable methi ment: OR. If I am a small	od of freatment, store; quantity generator, i h	na or discossu curre	riuw byanacia ic) ing win	waste generation and select
Printed/Typed N	large	_	Signature	21	fc 2	Month Day Year
T 17. Transporter 1 A	JICLIANIC Acknowledgement of Rec		Divi			
Printed/Typed N	vame AGCK		Signature	and the same of th	\ \	Month Day Year C
	cknowledgement of Rec	elpt of Materials	(0)			Date Month Day Year
18. Transporter 2 A	Vame	· · · · · · · · · · · · · · · · · · ·	Signature			MERICI Day resi
19. Discrepancy Ind	lication Space	, '	:			
A C	•			!		m 19. Date
20. Fecility Owner	or Operator: Cartification	n of receipt of hazardou	s materials coveres	by this marifest a	except as noted in ite	
/ Printed/Typed		n <del>o</del>	Signatore	Mes of		Month Day Year
This Agency is authorized to re	Jewysed St. Minota Revised St.	Lines, Chapter 111's Section 21. 1	that this Information be submi	ited to the Agency. Failure	to prove the information may	result in a civil penelty against the owner been approved by the Forms Management

COPY 1. TSD MAIL TO GENERATOR COPY

Treatment One

Division of SET Environmental, Inc.

573 heswood Street - Houston, TX 77087

713-045-8710 // 800-598-7328

TNRCG Permit No. HW-50267 EPA ID No. TXD055135388

Fax: 713-649-1027	
WASTESTREAM PROFILE	Name of Managers and Associated Section 201
Approval No.: Treatment/Handling Code: Sales Rep: 70 Disposal Accrual: Pricing:	
PROTER PARTOR NEORWELL ON THE WAR THE SECRETARIES OF THE SECRETARIES.	
Generator National Castings, Inc.  Contact Al Flick Telephone (708) 344-0675 Fax (708) 344-0284  Mailing Address 110 N. 25th Ave. City, State Zip Melrose Park, IL 60160 Site Address Same City, State Zip	
U.S. EPA ID No: [ILD072317761 Texas Generator ID No. 99917	Const. C. Wash. Burgary Carlot Const. (in Const.) (in Const.)
II DENEROLINAS DE UNE DRIVANI ORIENTARIA DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANION DEL COMPANIO DEL C	
FREQUENCY CONTAINER TYPE CONTAINER SIZE	Tote Cu. Yard  5 Gal Cu Yd Tote
MASSING CONTACTOR OF A ZONT DESCRIPTION OF THE PROPERTY OF THE	
Radioactive ☐ Yes ☐ No Poison ☐ Yes ☐ No Explosive ☐ Yes ☐ No Carcinogen ☐ Yes ☐ No Infectious ☐ Yes ☐ No Infectious ☐ Yes ☐ No Corrosive ☐ Yes ☐ No Water Reactive ☐ Yes ☐ No Flammable ☐ Yes ☐ No Shock Sensitive ☐ Yes ☐ No Oxidizer ☐ Yes ☐ No Organic Peroxide ☐ Yes ☐ No Pyrophoric ☐ Yes ☐ No	
Describe the process generating the waste, including raw materials and final product.  Un     1 product. Used/Spent (Attach laboratory and	alysis)
(18)	:

Page 1 of 5

<b>US</b>				

Total of components must equal 100%

war arensi	1 1 CASHIY	<b>Reference</b>	Bearing of	First Nation	e de la como
Phenol-Urea-Formaldehyde			70%	to	80%
Resin				to	*****
Water				to.	
Phenol	108952		15%	to	25%
Formaldehyde	50000		1%	to <sub>.</sub>	5%
				to	
	, <u>, , , , , , , , , , , , , , , , , , </u>		o programa m	to	
				to	
				to.	
(MSDS Attached)				to	
(INICAL OF PERSONS				to	
				to	
				to	<u> </u>
- C- C-				to	, Andrew States Of
				to	<del>/</del>
				to	<u> </u>

			The same of the same of the same	Communication of the Communica
ANCHARAONERISMES				
Specific Gravity /. 3 Color Dark Amber  PHYSICAL STATE  Percent  Solid Sludge Liquid Gas  LAYERING  Homogeneous Bilayered Multilayered Amount of layers	Odor Mild  FLASHPOINT    < 73°F	Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Maganese Mercury Nickel Selenium Silver Thallium	Yes No Yes No	PPM
Total Cyanide Reactive Cyanide None Total Sulfide None Reactive Sulfide None TOC Present  'OR PRESSURE @ 100°F	ppm BTU/lb ppm Ash % ppm Water % ppm Sulfur % ppm Chlorine % Fluorine % Bromine %	Zinc  <2000 Range Range Range Range Range Range Range Range Range Range Range Range Range Range	☐ Yes ☑ No	

VIENTERIO	TORYNINE		N. A.					PP PP PP
Texas Waste	Code	OUTS2191						
			's detailed knowledg	e of the waste?			Yes	No.
Is the hazardous waste	determination base	d on the analysis of	f the waste? If yes,	please attach ar	alysis.		☐ Yes	☑ No
Does this waste meet th	e definition of debr	s in 40 CFR 268.2(	(9)?				☐ Yes	☑ №
If this is a characteristic	ally hazardous was	te (i.e., D-Coded), d	does it contain any u	inderlying hazard	lous constituents		Yes	☑ No
as defined in 40 CFR 20	88,2(i)? If yes, iden!	ify each constituent	t and their percentag	ges in Section V.	Waste Composition.			
Does this waste contain	any of the EPCRA	313 chemicals iden	ntified in 40 CFR 37	2.65? If yes, list	these chemicals, CAS	#	✓ Yes	□ No
and their percentages in	Section V. Waste	Composition.						
Does this waste contain	any of the EHS ide	entified in section 30	02 of EPCRA? If ye	s, list these chen	nicals, CAS#		☑ Yes	
and their percentages in	n Section V. Waste	Composition.	http://www.	epa gov/swerc	epp/ehs/ehsaloha.hi			
Is this waste regulated	under the National	missions Standard	for Benzene Waste	Operations (40	CFR Part 61 Subpart F	F)?	Yes	☑ No
					•			
	THE OSCILLATION AND ADDRESS OF THE OWNER.	TENESTAL TO A STATE					្នា	
			Level 1			12.50	Š.	
	EPARAMAN	<b>新闻,他不知识的知识</b>		随意			<u> </u>	
	Wasterlo E	Management of the Control of the Con	tegovic. (19 <del>4</del> 8)			Pagamen.	4	
		NR					4	
						- -	-	
		ļ					4	
						·		
							-	
	10000						-	
						·	4	
					· · · · · · · · · · · · · · · · · · ·		4	
							_	
						·	_	
							_]	
						700000	_]	
ļ								
				A datata mad	Descriptors			
Shipping Name	Toxic, Liquids	, Organic n.o.s.		Additional	Descriptors			-
Tachaire Names	فديدة والماسية	- Ob			ERG# 153		40000	_
Technical Names	(Formaldehyd	e, Phenoi)			EI(G# 150	of control DNC		
Hazard Class	6.1	UN/NA Ni	umber UN2810	RQ	n/a	Packing Group	p <u>I</u> I	
		٠	<b></b>	,				
		The same of the sa	The state of the s	AND DOT NOT HAVE BEING AND YOUR		Southern Company of the Company of t	en en en en en en en en en en en en en e	Contraction of the Contraction o
MINICHNEN			RON					
I hereby certify that the info	rmation identified abov	e and attached to this p	profile is complete and a	courate to the best of	of my knowledge and ability	to determine that no omi	SSIONS OF	
composition or properties e			nave degn discressed. T	SIZO ALIGALZENIO IL IS	title 162 housements to higher	y legitary and acasery m	,	
III GOOGLEGICS WILL COLL A	<i>;</i> ///							
		1101			Ma. T	1		
	1/101	1100	<del>-</del>	K.	MAIN IN	TANDG"		
•	GENER	ATOR'S NAME	_		MAINT I	LE ,		
	1 -	1 / /	7		_ /	<i>[</i>		
	11 1	10-11	•		6/11	101		

Page 4 of 5

## Treatment One

Division of SET Environmental, Inc.

5738 Cheswood Street - Houston, TX 77087 -645-8710 // 800-598-7328

TNRCC Permit No. HW-50267 EPA ID No. TXD055135388

Fax: 713-649-1027	OK; JAM;	5/24/01	417845-676
	ESTREAM PR	OFILE	
Approval No.: 18-30281 Sales Rep: 70	Treatment/Handling Disposal Ac Pi		31) 51
Generator National Castings		Broker Name SET Environ	mental. Inc.
Contact Al Flick Telephone (708) 344-0675 Fax (708) 344-0284 Mailing Address 110 North 25th Ave. City, State Zip Melrose Park, IL 60160 Site Address City, State Zip		Contact Liz Marble Telephone (847) 537-926 Fax (847) 537-926 Mailing Address 450 Sumac R City, State Zip Wheeling, IL	21 55 Read
	Generator ID No. 999	17	*
Wastestream Name: Forseo Carsil	- W. W. C.	QUANTITY 1	
FREQUENCY One Time Yearly Monthly Quarterly Poly	Wood	CONTAINER SIZE  Gal  Gal	55 Gal Cu Yd Tote
Radioactive Yes No Explosive Yes No Compressed Gas Yes No Dioxin or Suspect Yes No Water Reactive Yes No Shock Sensitive Yes No Organic Peroxide Yes No	Pois Carcinog Infectio Corros Flammal Oxidiz	SON Yes No  Jen No	103 (18)
escribe the process generating the waste, including raw monused Product	aterials and final product.	Unused (Atrach MSDS)  Used/Spent (Atrach late of the control of th	boratory analysis)

The many property of the control of

<del>- ;</del>
•
_
] :
1 1
and the second s
TREATMENT OF THE PROPERTY OF T
And the second s
CONTRACTOR OF THE PROPERTY OF

VIEREGUE	<b>THORMIN</b>					2
Texas Waste		OUTS110H	The second secon	Property of the Control of the Contr		
,		L	edne of the waste?		🖸 Yes	□ No
"he hazardous waste determination based on the generator's detailed knowledge of the waste?  If yes, please attach analysis.						
Does this waste meet the definition of debris in 40 CFR 268.2(g)?						
If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents						
as defined in 40 CFR 2	268.2(i)? If yes, ider	ntify each constituent and their percer	ntages in Section V. Waste Composition.	Į.	☐ Yes	✓ No
Does this waste contain	in any of the EPCRA	A 313 chemicals identified in 40 CFR	372.65? If yes, list these chemicals, CAS#			
and their percentages			·	Į	Yes	✓ No
Does this waste contain	n any of the EHS id	entified in section 302 of EPCRA? If			] Yes	☑ No
and their percentages			w.epa.gov/swercepp/ehs/ehsalpha.htm	li .	163	<u> </u>
is this waste regulated	under the National	Emissions Standard for Benzene Wa	ste Operations (40 CFR Part 61 Subpart FF	)?(	Yes	☑ No
	- 1980 -					
	EPA Hazardous					
	Waste No	Subsalegory	West of Seasons			
	D002	n/a		Sec. 88880 (2010) 83890		
•						
				**************************************		
Shipping Name	Wate Comeia	e Liquids, Basic, Inorganic, n.c	- Addisonal Descriptor			
ompania recitio	114305 00110314	e Elquius, basic, morganic, n.c	s.s. Adollional Descriptors			
Technical Names	(Sodium Silicate	9)	Company Compan			
Hazard Class	8	UN/NA Number UN3266		0		
	<u> </u>	טואואי ושטווטפון שאואאט	RQ n/a	Packing Group		
			·			
				ain and the same of the same o	e escararente en esta en esta en esta en esta en esta en esta en esta en esta en esta en esta en esta en esta e	

### LINEN CRAMBISO CERMINEAMEN

I hereby certify that the information identified above and attached to this profile is complete and accurate to the best of my knowledge and ability to determine that no omissions of composition or properties exist, and that all known or suspected hazards have been disclosed. I also understand it is my responsibility to property identify and classify my waste in in accordance with 'JSEPA, US DOT and State regulations.

GENERATOR'S NAME

SIGNATURE

MAINT MANAZO

Page 4 of 5

Treatment One

Division of SET Environmental, Inc. 573° Cheswood Street - Houston, TX 77087

71- 45-8710 // 800-598-7328

TNRCE:Permit No. HW-50267 EPA ID No. TXD055135388

Fax: 713-649-1027	The state of the s
WASTESTREAM PRO	DFILE
Treasment Cheffer Only	
Approval No Treatment/Handling Co	
Sales Rep: D COZZI Disposal Acci	rual:cing:
	3119.
ECSNERATARE OR MATION	D. W. Miller C. C. T. C. Michigantol
Generator ABC / NACO INC	Broker Name SET Emaleonmental  Contact
Contact AL FLICK Telephone 708/344-0675 X 379	Telephone 847/537-9221
Fay 708/3/4_0284	Fax 847/537-9265
Mainid Variess 116 14 Follows	Mailing Address 450 Sumac Rd  City, State Zip Wheeling 10, 60090
City, State Zip MELROSE PARK, IL 60160 Site Address SAME AS ABOVE	City, State Zip Integning 12 10000
City, State Zip	
- 10 M	<del>17</del>
U.S. EFAIDING.	
THE GENERAL SHEINFORMATION	
1 stestream Name: Kchniset Resin Part ]	QUANTITY
- FREQUENCY	Gallons Debounds Cu. Yard
Con Time M Yearly	CONTAINER SIZE Gal
Metal Wood	
Poly Fiber	Gal Cu Yd Tote
Other	
III., SEECIEIGIE AZARDS, Please identify all that apply	ison ⊡ yes ☑ №
I TAGIOGOTIA DI TO	ison ⊡ yes ☑ No ogen ⊡ yes ☑ No
Compressed Gas ☐ Yes ☑ No Infect	flous 🖪 Yes 🔽 No
DIOXIII OI OGODCCI LLICO LLICO	sive Tres V No able Tres V No
Shock Sensitive ☐ yes ☑ № Oxid	dizer Dives 10 No
Organic Peroxide ☐ Yes ☑ No Pyropt	noric was No
TV PROXESS	
Describe the process generating the waste, including raw materials and final produ	ict. IV Unused (Attach MSDS)
UNUSED MATERIAL	Used/Spent (Attach laboratory analysis)



V	WASTÉ GO	MEGSIFIOI	4						
-	al of components mu				100010	The second secon		W.S.	
		A CONTRACTOR OF	oneats.	CASS			Ranger:	,	
TC	11setres à	MENDIC	RESIN	P003-35-4	<u>55</u>		to	-	
		PHEMOR		08-95-2	<u>5</u>		to		
		ESTER SOU	<u>entis</u>	119-40-0					
			Name and Advanced Property of the Park of	104-65-0			to		(7
		Perponeum DIS	TULATES /A.	Tag (64742-94-5	25				2
		NAPHTHAN	5/16	91-20-3	(2-3)		to		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			····		lo .	$\dashv$	
						<u> </u>	to		1
							to		, i
							to		
		-					to		
							to		18,
			., <u></u>			,	to		•
							to		
		<u> </u>		<u>, , , , , , , , , , , , , , , , , , , </u>	atom i i i i i	<del></del>	***		1
			· · · · · · · · · · · · · · · · · · ·		stanting and the second second second second second second second second second second second second second se				
V	CHARAG	TERISTICS			4.10.76				×
	0 10 0 1	105-115	Odor Mr.	A AHONORIC	r	METALS PRESENT -			** }
	Specific Gravit	y 1.05-1.15 r <u>1860 w</u> N				44.55	poor (1)	PPM	٠
	YSICAL STATE -		- FLASHPOINT			Aluminum Anumony	☐ Yes ☐ No ☐ Yes ☐ No	<u></u>	
	" "ISLAL STATE "	Percent	□ < 73°F	<b>A</b> i140°F - 199°F		Arumony	☐ Yes 🔼 No		
	Solid	refeent		PF □ > 200°F		Barium	□YS ØNo		3
	Sludge		100°F - 1			Beryllium Cadmium	Yes No		
	Liquid	100 %		xact 145		Chromium	Yes No		
	☐ Gas			~~~ <u></u>		Cobalt	☐ Yes     Ⅵ No		
	- LAYERING -		F pH		<del>-</del>	Copper	☐ Yes		÷
	4		□ < 2	☐ 8 to 10		Lead Maganese	☐ Yes		
	M Homogeneou	\$	2 2 2 4	10 to 12.5		Mercury	TYes D No		, r
	☐ Bilayered		□ 4 to 6	☐ > 12.5		Nickel	Yes No		
	Multilayered	Ĭ	<b>10</b> € 10 8			Selenium Silver	Yes D No		
	Amount of laye	- I	1 1 1	xact		Thallium	☐ Yes 🖸 No		:
	- Amount of laye			<u></u>		Zinc	☑ Yes ☑)No		
	L								:
	Total Cyanic	le ns j	opm	BTU/lb	>5000	Range			!
	Reactive Cyanic		opm	Ash %	ns	Range			
	Total Sulfic	le ns	pm	Water %	ns	Range		5-A-873344456	
}	Reactive Sulfic		opm	Sulfur % Chlorine %	ns ns	Range Range	3.7	<del></del>	i.
	10	C present	ppm	Fluorine %	ns.	Range		n.m.	
	T VAPOR PRESSURE	@ 100°F		Bromine %	ns	Range			•
	76.6 KPa (	575 mmHg)		•		; *			- :
	> 76.6 kPa (					•			
	<u></u>								•
-									

2011 12 2001	1 14.50		grand the first first the second of the seco	11440 AG		į.	
VIE PEGUEAJ	FORYINE	DRMATION					
Texas Waste C		OUTS2081	· ·				
	Is " azardous waste determination based on the generator's detailed knowledge of the waste?						
le the eazardone waste o	tetermination base	d on the analysis of the waste? If yes,	please attach analysis.		Yes	DKN0	
s the nazardous waste determination based on the analysis of the waste? If yes, please attach analysis.  Does this waste meet the definition of debris in 40 CFR 268.2(g)?						No .	
If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents						Z No	
as defined in 40 CFR 268 202 If yes, identify each constituent and their percentages in Section V. Waste Composition.							
Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.65? If yes, list these chemicals, CAS #						□ No	
and their neroentages in	Section V. Waste	Composition.					
Does this waste contain	any of the EHS ide	entified in section 302 of EPCRA? If ye	es, list these chemicals, UAS #	hadromit'	) Yes	□ No ≾	
and their percentages in	Section V. Waste	Composition. http://www.s	pa gov/swercepp/ehs/ehsalpha	nartes 7	☐ Yes	No	
is this waste regulated u	inder the National	missions Standard for Benzene Wast	Operations (40 CFR Part of Cob)	Joint M.			
			estati.	# 1.70 82 7 # 1.57	*****	4	
!			EPA - I				
	EPArtragatatius		Hezardous :			•	
	. Waste Ne.	Subcatedory	Master (Cris	coesone.		,	
						 •	
						:	
						1.	
	-						
		2.50			7	. 5	
	-90-					?	
i							
	m						
						* •	
		A CONTRACTOR OF THE CONTRACTOR				;	
		0					
Shipping Name	Ra PHEN	OL SOUTIONS	Additional Descriptors		<i>-</i>	<del>-</del> .	
						<b>–</b> ;	
Technical Names	00-00-00-00-00-00-00-00-00-00-00-00-00-				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		
Hazard Class		UNINA Number 2821	RO 1000 (45.4)	Packing Grou	up 711	٦ .	
nazaio Ciass	(o./	_ CONTRACTOR COLOR	114 (000.010.1)	• • •		<del></del> .	
		and the second s					
MINICENER	September 1	EFFEICATION			10.00	100	
I hereby certify that the info	ormation identified abo	we and attached to this profile is complete and	i accurate to the best of my knowledge ar	d ability to determine that n	o omissions o	<b>f</b>	
composition or properties e	exist, and that all know	n or suspected hazards have been disclosed.	I also understand it is my responsibility t	o properly identity and class	nny waste i	П	
in eccordance with USEPA	, US DOT and State r	egulations.	•	 			
	// /	.// .//	MITT	- Maria	<b>-</b> 4		
	127	Cick_	MAINL	1/HOT	11		
	GENE	RATOR'S NAME	/ (	THLE		•	
	11		/				
	114	Viá V	6/15	101			
		VCIC_	-1,0/	7.5	<del></del>		
	S	IGNATURE	l /	DATE			

Treatment One

ivision of SET Environmental, Inc. 138 Cheswood Street - Houston, TX 77087

710 // 800-598-7328 13-6

TNRSE Germit No. HW-50267 EPAIG No. TXD055135388

x: 713-649-1027	•		- A A-32		188
AIA	STESTREAM	roje ise			
	OILOPNI DIVA			ST.	
em (en jenje je jeniven kartus ika hadivan	Treatment/Handli	on Code	Topiconia Salakatan		
Approval No.		Accrual			90
Sales Rep. D Cozzi	and the form	Pricing			
REPUBLICATION DE PROMETUR			100 C 100 C		25.2
Generator ABC / NACO Inc		Broker Name	SET) E <b>pition</b> mental Shaki <b>Etoni</b> e		- 37% 37%
Contact Al Flick			8472-52 32-2		·
Telephone 708/344-0675 x 379			847153739285		
Fax 708/344-0284	k- 502	Mailing Address	450 Selisi (F.)		(\)
Mailing-Address 2001 Butterfield Road, S	15	City: State Zip	WhiteRing 12 60090	)	_
City, State Zip Downers Grove, IL 605 Site Address 110 N 25th Ave	IU				14
City, State Zip Melrose Park, IL 60160			i i i i i i i i i i i i i i i i i i i		, (T.)
City, State Zip menose rain, in					X.
U.S. EPA ID No:   ILD072317761	Texas Generator ID No.	99917	3 10 10 10 10 10 10 10 10 10 10 10 10 10	San Harris and San (1) - F. S. San	
residentary and Ring.	STAY STEED AND AND COMES	A STATE OF THE STA	Number 1		
	11574 C. 1707	- QUANTITY	<b>5.</b> (1)	☐ Yore	1 5
Wastestream Name: Waste	Paint		Gallons Pounds	Cu. Yard	
	CONTAINER TYPE	⊠;Dram (	Gallons	[_] CQ. 1816	
FREQUENCY  One Time  Yearly		- COMBANIER SIZ		Gal	٦ 🖔
	☑ Metal ☐ Wood			Cu Yo	
☐ Monthly ② Quarterly	Poly Diber		5 Gal Gal	Tote	3
Orher				, ,	
		Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Sa		The same	, A
				A STATE OF THE STA	
		Poison Aves	☑ No		
Radioactive [ Yes	C	arcinogen 🖾 🕶	☑ No		
Compressed Gas 🗆 😕 🖂 №	-31	Infectious 🗆 🕬	☑ Ne		
Dioxin or Suspect ☐ Yes ☐ No		Corrosive:/ Tres	☑ No		
Water Reactive [] Yes [] No	- ha	lammable∈⊡ yes Oxidizer ,⊡ xes	☐ No		- 18
Shock Sensitive ☐ Yes ☐ №	·	Pyrophoric ( Yes	☑ No		- 3
Organic Peroxide 🗆 🗸 🗠	. Substituti	y opinosa amaro	y companies on		1
			lod :		
Describe the process generating the waste, inc	luding raw materials and fina	al product.	] Unused (Artach: MSDS)	V 3	14
Unused material for painting castings. See	attached analysis.		Used/Spent (Adach labor	atory analysis)	1.6
				and	
	and the second of the second o			101	1181
	- N	- Andrews - Andr		1	(19)
	Storet.		20.50		r

ital of components must equal 100%

equal 100%	1 June 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e e de la companya de la companya de la companya de la companya de la companya de la companya de la companya d	as Marketina	
	7.00	70%	176	80%
/ater	75%	10%	άŏ	15%
ebris	13%	E0/	10	10%
lkyd resin	6%	5%	io -	10%
ylene	6%	374	4 C 2 C 1 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	
white the second	The state of the s	4	to 10	
			6	
The state of the s				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s		10 10	
A PART OF THE PART			A-A	
Lind passages - Land of the second of the se			to fo	
Contract of the second				
A CONTRACTOR OF THE PARTY OF TH			- <b>to</b>	
1000.000				
			to	
			<b>10</b>	
A A Market		1	'to	

	<b>一种企业的企业的企业的企业。</b>	And the second s	A CALL CROSS ST.	
Specific Gravity >1 Color Black/Brown	Odor <u>Mild</u>	METALS PRESENT -	□ No	PPM
Percent Solid Studge 30	FLASHPOINT  < 73°F  140°F - 199°F  73°F - 99°F  100°F - 139°F	Antimony Arsenic Banum Beryllium Cadmium	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
D LIQUID 70 D GSS	Exact	Chromium Cobalt Copper Lead Maganese	Total No	
☐ Hamogeneous ☑ Bliayered ☐ Multilayered	☐ < 2 ☐ 8 to 10 ☐ 2 to 4 ☐ 10 to 12.5 ☐ 4 to 6 ☐ > 12.5 ☐ 6 to 8	Mercury Nickel Setenium Silver	No No No No No No No No No No No No No N	
Amount of layers	ppm BTW/lb	Thatlium Zinc ns Range	No No	**************************************
Total Cyanide ns  Reactive Cyanide ns  Total Sulfide ns  Reactive Sulfide ns  TOC ns	ppm Ash % ppm Waten % ppm Sulfur % ppm Chlorine % Flugrine %	ns Range present Range na Range ns Range ns Range	7 <b>4-38-</b> 2	
VAPOR PRESSURE @ 100°F	Bromine %	ns Range		***************************************
	Page	2 of 5		

	6.2.11	ARMATIKO MALA			2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -		-73/AT
	Parameter Control of the Control of				्राप्ता । जन्म		
exas Waste Co	ode (	OUTS119H		or a Ma	3	✓ Yes	□ No
the harmdous waste det	ermination based	on the generator's detailed kr	owledge of the	ewaste?	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	□ No Å
the h. dous waste det	armination based	on the analysis of the waste?	If yes, pleas	e attach analysis	to a	Yes	☑ No ?
	L.E. Han at dahat	in 40 CER 268 2(c)?			- Open Control of the		
	to an analyzanian settle	SIGO D.Coded) does it conta	in any underl	ying hazardous constituents		Yes	□ No.
	nete IIa. ideali	French conclinent and incli S	ercemades III	ORPHOLIST GOINNAGING	no GE		
es this waste contain ar	y of the EPCRA	313 chemicals identified in 40	CFR:372.65?	If yes, list these chemicals, c	. # <b>5</b> #	₩ Yes	L No ∴
	Cam 1/ Information (	<sup>ก</sup> ัดพทุกสาที่ได้ถึ		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
oes this waste contain ar	ny of the EHS ide	intified in section 302 of EPGR	A? If yes, list	these chemicals, UAS #		C Yes	☑ No S
	interes	Camancillas DID	COMMITTEE CLIES	CITAL PARTS NACIONAL SERVICE CONTRACTOR SERVICES		☐ Yes	No No
this waste requiated uni	der the National I	Emissions Standard for Benzel	ne Waste Ope	rations (40 OFR Part 61 Subt	1847 ET / C	1	Action and the Co.
- All and the same of the same	,,			The state of the s	e valendaria		
<b>₽</b> 7				Control of the second s	9		
							ाई है। 17 जिल्हा
	Water	Sincidor	1515334 N			Section CEAL STATE	
	D001	N/A (32, 229)					기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기
	War out of the same						
							7. s 4. s 8. o
Ţ					( 38 - b		الله الله الله الله الله الله الله الله
	a				All the second of the second o		2000 2000 2000 2000 2000 2000 2000 200
		10.00			2.57 (m. 1977) 2.57 (m. 1977)		
							1
	<u> </u>				100 May 100 Ma		# 10 m
	1912-1919				A KIR MALE		
							追
		The state of the s			100 V		1-3
					4 - 22 - 19		
					The second of th		- 원년 - 교실
							- 124 124 134
	***	1		- the set of the second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3
			÷	Secretary Secretary			, W.
Shipping Name	Waste, Paint		Alle Calumbras Cas, Trans	Additional Descriptors	- 100 St. 100		
	PERSONAL PROPERTY.			10 10 10 10 10 10 10 10 10 10 10 10 10 1	52 10 10 10 10 10 10 10 10 10 10 10 10 10	accounts to	
Technical Names			· · · · · · · · · · · · · · · · · · ·	ERG#: 128	2		<del></del>
	-	1 19.1/ALA Niverband	11514757	PO	Packi	ing Group	
Hazard Class	5 3	UN/NA Number	UN1263.	11/2	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ري. <del>المجمودية.</del> الأدار. الإدار.
		•	and the second	and the second of the second s	and the second	· ·	
TANK TANK		er de le complete					
I haraby sartify that the info	ts baitloobi anticeme	sove and attached to this profile is of	mplete and acc	urate to the best of my knowledge at	rd abl <b>imite</b> delle mine	that no omissions o	1
composition or properties o	xist, and that all kno	wn or suspected hazards have been	disclosed. 1 ale	so understand It is my responsibility (	to properly dentity on	d classify my wasto	u.
in accordance with USEPA	, US DOT and State	regulations.		• •			
	<i>^</i>	1101		As.	- + 11		
	L/, 7	11CK		TIA W		<u> 1109 -</u>	- d
		COATODIC NAME			TILE	•	
	Mطور	ERATOR'S NAME		1	Mary State Company		· \

Page 4 of 5

SIGNATURE



SET Environmental, Inc.

450 Sumac Road Wheeling, Illinois 60090-6382 Tel: (847) 537-9221 • Fax (847) 537-9265 Report # 3919-3127 Date: 7/18/01

# Laboratory Report

Customer: ABC/NACO, Inc.

Description of Samples Received: 1 Unknown Sample for Analysis

Description of Services Rendered: Unknown Identification

\* Results are furnished on the attached page(s) \*

If you have any questions concerning this report, please contact the SET Laboratory staff at (847) 537-9221.

Bijan Saeedi Lab Manager

Report # 3919-3127

Date: 7/18/01

Customer: ABC/NACO, Inc.

# Unknown Identification Report

material Company (Company)	American Otsi	Chemical Na	<u>me</u>
Sample Number	Approx. Qty.	34 AM ACCOUNTS	
waste paint	1 qt	Water and Debris	/ Alkyd resin / Xylenes
	Characteristics Physical Appearant Solubility in water Approximate pH Oxidizer Polymerizable	ce: multi-phase liquid : partly : 6 : no : no	Reducer : no Flammability potential : yes Reactive : no Unstable : no

- END OF REPORT -

Treatment One

Division of SET Environmental, Inc. 5738 Cheswood Street - Houston, TX 77087

5-8710 // 800-598-7328

TNRCC Permit No. HW-50267 EPA ID No. TXD055135388

Fax: 713-649-1027		11 x
WASTES	TREAM PROFILE	
Treatment One Use Only		
Approval No.:	Treatment/Handling Code:	
Sales Rep: D COZZI	Disposal Accrual:	8
	Pricing:	ř Markovsky
SENERATOR INFORMATION		
Generator ABC / NACO INC	Broker Name SET Environmental	
Contact AL FLICK	Contact	= = = = = = = = = = = = = = = = = = = =
Telephone 708/344-0675 X 379	Telephone 847/537,9221	
Fax 708/344-0284	Fax 847/537-9265	
Mailing Address 110 N 25TH AVE	Mailing Address 450 Sumac Rd	_
City, State Zip MELROSE PARK, IL 60160	City, State Zip Wheeling, IL 60090	- W
Site Address SAME AS ABOVE	-	the se
City, State Zip		W. Ele
U.S. EPA ID No: [ILD072317761 Texas Gen	nerator ID No. 99917	
HE CENERAL WASTERNIORNATION	V.	
M testream Name: WASE PART.  FREQUENCY CONTAINER TYPE  One Time Vearly Metal  Monthly Quarterly Poly	TIVATOR NORTH DESIGNATION OF STATE OF S	
III SPECIFIC HAZARDS Please identity alt	hat apply:	
Radioactive Yes No Explosive Yes No Compressed Gas Yes No Dioxin or Suspect Yes No Water Reactive Yes No Shock Sensitive Yes No Organic Peroxide Yes No	Poison ☐ Yes ☑ No Carcinogen ☐ Yes ☑ No Infectious ☐ Yes ☑ No Corrosive ☐ Yes ☑ No Flammable ☐ Yes ☑ No Oxidizer ☐ Yes ☑ No Pyrophoric ☐ Yes ☑ No	
IV::PROCESS		
Describe the process generating the waste, including raw mate UNUSED MATERIAL	erials and final product.  Used/Spent (Attach MSDS)  Used/Spent (Attach laboratory analysis)	
	105	(8)

MAY-30-2001	10:27	SET ENVIRONM	ENTAL				P.06/07
V. WASTE C	DMPOSIT	ON					
Total of components mu			ac - c - c - c - c - c - c - c - c - c -			***************************************	
	C. C. C.	omponents	CAS#	Average%:		Range V	
	WASTE PT	3 TECHNISET		100		to	
		ACTIVATOR				to	
	DRA MART	150 00 155	64742945	(60)		to	
	· COM TOTAL		91-20-3	(50%)		to	
	00011130	3 FORE A PRINCES NO	1 42 -		) 	to	- :
	4- PHENUL)	2014 PURILINE	2057-49-0	(25%)		to	
	0	0 0				to	
	1-WEIHAR I	MIDAFALE	1016-47-7	(25%)		to	
						to	· ·
					·	∵to	
		<u>,                                    </u>		·-··		to	
				V - 1100		to	
						to.	
						to	
VI, CHARACT	depleases						
Specific Gravity Color SICAL STATE Solid Sludge SLiquid Gas LAYERING LAYERING Bliayered Multilayered Amount of layers	Percent 1	FLASHPOINT	145. 10 to 12.5		Aluminum Antimony Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Maganese Mercury Nickel Selenium Silver Thallium Zinc	Yes   No.     No.	
Total Cyanide Reactive Cyanide Total Sulfide Reactive Sulfide TOC  VAPOR PRESSURE ®  76.6 kPa (575)	ns Present	<b>-</b>	BTU/lb Ash % Water % Sulfur % Chlorine % Fluorine % Bromine %	ns ns ns ns ns ns	Range Range Range Range Range Range Range Range Range		

VII. REGULA	TORYINE	ORWATION			
Texas Waste		0UTS 2021			On Constitution on the second
Is the hazardous waste	<b>O</b> Ves	Ū No			
ls .nazardous waste	Yes	Ŋ No			
Is nazardous waste determination based on the analysis of the waste? If yes, please attach analysis.  Does this waste meet the definition of debris in 40 CFR 268.2(g)?					
If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents					
as defined in 40 CFR 268.2(i)? If yes, identify each constituent and their percentages in Section V. Waste Composition.  Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.65? If yes, list these chemicals, CAS.#					
Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.657. If yes, list these chemicals, CAS.# and their percentages in Section V. Waste Composition.					DCNo.
and their percentages in Section V, waste Composition.					
Does this waste contain any of the EHS identified in section 302 of EPCRA? If yes, list these chemicals, CAS # and their percentages in Section V. Waste Composition. <a href="http://www.epa.gov/swercepp/ehs/ehsalpha.html">http://www.epa.gov/swercepp/ehs/ehsalpha.html</a>					<b>™</b> N°
			te Operations (40 CFR Part 61 Subpart FF)?	☐ Yes	X No
ACAD SELECTION ACAD SELECTION ASSESSMENT OF THE PARTY OF			V	Residence of the second	
			1 6000000000000000000000000000000000000	500.303 <b>000</b>	
			EA.		
	EPA Hazardous		Hazardous 1		
	Waste No.	Subcategory 500	Waste No. 19 Subcategory		
		NOT EAR REGULATED			
					* .
					•
					:
					• .
					e .
ŕ	W.				·
Shipping Name	COMBUST	IBLE LIQUID, N.O.S.	- Additional Descriptors		ä
,, ,	, .	<b>\</b>	- Additional Descriptors		<del>-</del>
Technical Names	MHYARW	ALENE)	· · · · · · · · · · · · · · · · · · ·		<del>-</del>
U101					<del>-</del> :
Hazard Class	COWP LIN	Q UNINA Number 1993	RQ (45.4) Packing G	roup III	了···
			<del></del>	· • • • • • • • • • • • • • • • • • • •	- 3
VII. GENERA	STORESTOR	RIFICATION		***************************************	Assertation and the second
	rmation identified abov	e and attached to this profile is complete and :	accurate to the best of my knowledge and ability to determine tha		
composition of brobettles st	xisi, and that all known	or suspected hazards have been disclosed. ]	accurate to the best of my knowledge and ability to determine that I also understand it is my responsibility to properly identify and cla	il no omissions of	
in secondance with USEPA,	US DOT and State reg	gulations	The state of the s	assiny my waste m	te (
	1 -	- / - /	11		.* 1
	HI	lick	MAIN Sulso		
	CENTRAL CONTRACTOR		111/101 - JUICIE	<del>1</del>	
	BENERA	JOR'S NAME	TITLE		. 4
	111	- V <1/	C/22/2.		- s - :
	Le/	uch	0 /30/0/		- er - 2
	SIG	NATURE	DATE	M-1	

## TNRCG Permit No. HW-5026 EPA ID No. TXD055135388

## Treatment One

Division of SET Environmental, Inc.

5732 Cheswood Street - Houston, TX 77087

71. \$5-8710 // 800-598-7328

Fax: 713-649-1027

		40 5 42 3	***
WASTESTREAM PROFILE			
Treatment Cine ties Only	27401(01)		
Approval No.: Sales Rep: D COZZI	Treatment/Handling Code: Disposal Accrual: Pricing:		
RECENTERATE OF THE OF THE OF THE OF	(ION		11.31
Generator ABC / NACO INC Contact AL FLICK Telephone 708/344-0675 X 379 Fax 708/344-0284 Mailing Address 110 N 25TH AVE City, State Zip MELROSE PARK, IL Site Address SAME AS ABOVE City, State Zip U.S. EPA ID No: ILD072317761	Br. Mailir	oker Name SET Environmental Contact Telephone 847/537-9221 Fax 847/537-9265 ag Address 450 Sumac Rd y, State Zip Wheeling, IL 60090	
IF GENERAL WASTERNIE		,	
		1	
	SPANT PART Z CONTAINER TYPE	orum Gallons Pounds  NTAINER SIZE  Gal  Gal	□ Tote □ Cu. Yard □ Gal □ Cu Yd □ Tote
IIIBSERAIRIGEAMARDS VI	ësse klenify all-hat anniv		
Radioactive  Yes  No No No No No No No No No No No No No	Poison Carcinogen Infectious Corrosive Flammable Oxidizer	Yes V No Yes V No Yes V No Yes V No Yes V No	
IVEROCESS			
Describe the process generating the waste, in UNUSGN MATCHIAL	cluding raw materials and final product.	Unused (Attach MSDS) Used/Spent (Attach laboratory	analysis)
harmonia de la companya della companya della companya de la companya de la companya della compan		the second of th	



/ WASTE COMPOSITION				
Total of components must equal 100%				3/
Components	CAS'# Aveta	ýë%	Range	711
23-133 TECHNISET	100		to	1 MZ
CORENCIANT AT II			to	1 ' -
			to 	
FOLLMERIC DIFFERYL-	POIG-87-9 (5	2	to.	_
METHANE DIISOCYAN	H (E		to	
METHULENE BISCHIENY	- 101-66-8/ 13			· .
LIAM] (STAMPLUZEI		7	to	
<del>Q</del>			to	<u> </u>
AROMATIC PETROLEUM	6-442-94-51 35	;. <u>):</u>	to	
DISTILLATE			to	_
· CONTAINS NAME HTHREN			to	_
HEROSENE	(2	<b>J</b>	to-	_
			to: to:	-
			to	
L		·I		<del>-</del>
				, in the state of
VI. CHARACTERISTICS				
0.150 111-12 nd nd 1	saugut obor	METALS PRESENT		r
Specific Gravity 1.1-1.2 Odor MILL Color Blown		LIETACS PRESENT		PPM
		Aluminum	☐ Yes ☐ No	1
PHYSICAL STATE FLASHPOINT	4	Antimony	🖸 Yes 🔽 No	
Percent C < 73°F	140°F - 199°F	Arsenic Barium	☐ Yes <b>V</b> No ☐ Yes <b>V</b> No	
☐ Sludge	ŀ	Beryllium	Yes M No	
☐ Liquid ☐ 100°F - 135	ا مراسم ا	Cadmium	Yes No	
Gess Ex	act <u>MD</u>	Chromium Cobelt	Mes K No	
- LAVEDING		Cobalt Copper	Yes No	
LAYERING		Lead	🗖 Yes 🛍 No	
pag. termegaries as	2 8 to 10	Maganese	□ Yes 🔼 No	
LJ Bilayered	10 to 12.5	Mercury Nickel	□ Yes IXI No □ Yes IXI No	
	<b>]</b> > 12.5	Selenium	Tes D No	
, Line to 8		Silver	Yes 🔼 No	
Amount of layers Ex	act	Thallium Zinc	□ Yes \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		21110	E-S 1140	
Total Ovanida	PATITURE Y	5/20 20		
Total Cyanide ns ppm Reactive Cyanide ns ppm		500∂ Range 1s Range		
Total Sulfide ns ppm		ns Range		<del>-</del>
Reactive Sulfide ns ppm	Sulfur %	ns Range		
TOC <u>Oresent</u> ppm		Range		
VAPOR PRESSURE @ 100°F		ns Range ns Range		
< 76.6 kPa (575 mmHg)				<del>-</del>
7 > 76.6 kPa (575 mmHg)				:
				4
			and the second s	

VI REGULA	FORY INF	ORMATION				10.00		
Texas Waste (	Code	011131191			<del></del> .	<del></del>		
	s the hazardous waste determination based on the generator's detailed knowledge of the waste?							□No
		ed on the analysis of the			alvsis.		Yes Yes	K No
Does this waste meet th			The second secon		-9	Annual Issue of the Philippine	Yes	132No
		ste (i.e., D-Coded), does i	it contain any un	derlying hazard	ous constituents			
		ntify each constituent and				on.	LITES	jŽi,No
The Party Issues have been supported to the same supported to the	The second of the second	A 313 chemicals identified				and the state of t	☐ Yes	R No
and their percentages in				·			l 1 CS	المعمر
		dentified in section 302 of	EPCRA? If yes	, list these chem	icals, CAS#	0.00.00	Yes	<b>K</b> No
and their percentages in					op <i>l</i> ehs/ehsalpha			
Is this waste regulated u	inder the National	Emissions Standard for E	Benzene Waste	Operations (40	CFR Part 61 Subj	part FF)?	Yes	DX No
				Web	•		-	
	Estate de la constantina della			EFA L		7.0 m		
	EPA Hazerdou			Hazargous I				* 1
	Wasie No.			mazarouus II Wasie No	150	<u> </u>		
	Plancing	Subsatego		ATVASICATION	****	ocalegory		}
	<u> </u>	NOT EAR REGU	PALE?		<del></del>		4	
				1			_	
				ļ			_	j
							_	V - 3
					<u> </u>		4	4
					· .	122	4	Į.
	ļ						4	
								. 4
							_	1.3
								4
							_	1
					·			
_								- )
R	<u> </u>							, 1
Shipping Name	Combust	IBLE LIQUE	L.N.O.S.	Additional 0	escriptors	en en de la companya de la companya de la companya de la companya de la companya de la companya de la companya La companya de la co		21.3
		i		, , <u> </u>		74 July 10 Jul		
Technical Names	WARHTHE	KENE)		•	<del></del>	<del></del>		- 3 1 3 1
			——————————————————————————————————————		- + 3 - 3 \			
Hazard Class	COMB LI	UNINA Numbe	er 1445	RQL	(0)(45.4)	Packing Grou	P 77	
							-	
VIII GENER!	EPPELS 6	ERGEREATIO	M			tavidė, su sait.		4. 7 ************************************
		ove and attached to this profile		correte in the hest	of my knowledge an	2 - Lillies in Halarmina that no	icolone n	
composition or properties e	exist, and that all know	vn or suspected hazards have	been disclosed. 1:	also understand it i	is my responsibility to	a properly identify and classi	u mv waste i	n .
in accordance with USEPA	, US DOT and State	regulations.			· · · · · · · · · · · · · · · · · · ·	recommendation of the second	) 1119 ·	" ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
								1 -
	CENE				-			,
	GENE	RATOR'S NAME				TITLE		
					-			
	***							1,, 1
	- <u>-</u>	IGNATURE				DATE	<u> </u>	



Division of SET Environmental, Inc.

5738 reswood Street - Houston, TX 77087

713-0-5-8710 // 800-598-7328

Fax: 713-649-1027

TNRCC Permit No. HW-50267 EPA ID No. TXD055135388

WASTESTREAM PROFILE					
Treatment One Use Only					
Approval No.:	Treatment/Handling Code:				
Sales Rep: 70	Disposal Accrual:				
	Pricing:				
I. GENERATOR INFORMATION					
Generator National Castings, Inc.	Broker Name SET Environmental, Inc.				
Contact Al Flick	Contact Liz Marble				
Telephone (708) 344-0675	Telephone <u>(847) 537-9221</u>				
Fax (708) 344-0284	Fax (847) 537-9265				
Mailing Address 110 N. 25th Ave.	Mailing Address 450 Sumac Road				
City, State Zip Melrose Park, IL 60160	City, State Zip Wheeling, IL 60090				
Site Address Same	-				
City, State Zip	-				
U.S. EPA ID No: ILD072317761 Texas Ger	nerator ID No. 99917				
II. ENERAL WASTE INFORMATIO					
Wastestream Name: Waste Compress	sor Oil C QUANTITY 2				
wastestream waite.	lote				
F FREQUENCY — CONTAINER TY	/PE Gallons Pounds Cu. Yard				
☐ One Time ☑ Yearly	CONTAINER SIZE 55 Gal				
	Gal Gal Cu Yd				
	☐ Fiber ☐ Gal ☐ Tote ☐ Gal				
☐ Other					
III. SPECIFIC HAZARDS Please identify all	that apply.				
Radioactive ☐ Yes ☑ No	Poison ☐ Yes ☑ No				
Explosive 🗌 Yes 🗹 No	Carcinogen ☐ Yes ☑ No				
Compressed Gas ☐ Yes ☑ No	Infectious ☐ Yes ☑ No Corrosive ☐ Yes ☑ No				
Dioxin or Suspect ☐ Yes ☑ No Water Reactive ☐ Yes ☑ No	Flammable $\square$ Yes $\square$ No				
Shock Sensitive Yes No	Oxidizer Yes Vo				
Organic Peroxide ☐ Yes ☑ No	Pyrophoric ☐ Yes ☑ No .				
IV. PROCESS	this is a district and the second sec				
Describe the process generating the waste, including raw materials	terials and final product.  Unused (Attach MSDS)  Used/Spent (Attach laboratory analysis)				
Dre' from compressors.					
	(18) 107				

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9278 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

EASE TYPE (Form designed for use on elite (		TVT-VICE CONTRACTOR CO	700-22 (Re						0039	
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US E	EPA ID No. 2317761	, Doct	anifest Iment No. 52925	2. Pag	rec	ormation quired by nois law	y Federa	shaded a I law, but is	tednjteq tess is t
3. Generator's Name and Malling Address NATIONAL CASTING, INC. 110 NORTH 25TH AVENUE MELROSE PARK, IL. 60160		If Different			B. Gen		<u> 2¢</u>	<u> 25</u>	FEE P	LICABĹ
4. "24 HOUR EMERGENCY AND SPILL ASSIST Transporter 1 Company Name SET ENVIRONMENTAL. INC.	STANCE NUMBERS* 6.	US EPA ID ILD981957	Number	<i>(</i>	C. Tran	sporter's lumber		UPW	-2327	73-IL
7. Transporter 2 Company Name	8.	US EPA ID			E. Tran	sporter's l sporter's lumber	Phone	( 84	<u>y 537</u>	9221
9. Designated Facility Name and Site Address BEAVER OIL CO., INC.	10.	US EPA ID	Number	<u>.</u>	F. Tran	isporter's l	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		) 1	4.3
6037 LENZI AVENUE HODGKINS, 1L 60525		71 DAC4410	252		ID N	lity's IL lumber   lity's Phon	11	173	2 6 354-4	لكلنا
·		ILD064418	1700,00	12. Conta		13	) si	14	JJ 4 - 4	J40
11. US DOT Description (Including Proper Ship	ping Name, Hazard C	lass, and IU Numbe	7)	No.	Туре	Total Quantit	у	Unit WVVol		l. te No.
a. NOT HAZARDOUS BY DOT				004					EPA.HV	V Number
<b>b</b> .				006	D M	ع آنا		-	EPA HV	V Number
NOT HAZARDOUS BY	DOT		<b>6</b>	2001	P.F.			,		
NOT HAZARDOUS B	Y por					h			·EPA HV	/ Number
d,				001	D Ma		- ]-		EPA HV	/ Number
							,	-		
	A representation of the second				1 '					
11a.	I Information	26330/9	19		*		*		•	
15. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708)  16. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation If I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the environment of the properties	Information ) 344-0675  Include that the contents and labeled marked, and labeled hal government regulation to have a program in polected the practicable mirronment; OR, If I am a	of this consignment at, and are in all respenses.  Isce to reduce the vowerhood of treatment, as small quantity generations.	re fully and cts in prop	toxicity of w	vaste geni	erated to the	ne deg	on muni	TUZES TOE	Oresenti
15. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708)  16. GENERATOR'S CERTIFICATION: I hereby deproper shipping name and are classified, pack according to applicable intermetional and nation.	Information ) 344-0675  Include that the contents and labeled marked, and labeled hal government regulation to have a program in polected the practicable mirronment; OR, If I am a	of this consignment at, and are in all respenses.  Isce to reduce the vowerhood of treatment, as small quantity general	re fully and cts in prop	toxicity of w	vaste geni	erated to the	ne deg	on muni	te genera: D	Oresem
5. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708) 6. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation if I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed Typed Name	Information  344-0675  Indicate that the contents and labeled marked, and labeled hal government regulation to have a program in placted the practicable micromment, OR, if I am a lat is available to me and	of this consignment at, and are in all respectors. lace to reduce the vonethod of treatment, a small quantity general intail can efford.	re fully and cts in prop	toxicity of w	vaste geni	erated to the	ne deg	on muni	le genera  D  Month	ion and ate Day Ye
5. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708) 6. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation if I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed Typed Name  7. Transporter 1 Acknowledgement of Receipt Printed Typed Name	Information  344-0675  Indicate that the contents and labeled marked, and labeled hal government regulation to have a program in placted the practicable micromment, OR, if I am a lat is available to me and	of this consignment at a distance and are in all respectors.  Jace to reduce the volument of treatment, a small quantity general that I can afford.  Signature	re fully and cts in prop	toxicity of w	vaste geni	erated to the	ne deg	my was	te genera D Month	ate Day Ye ate Day Ye
5. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708) 6. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation if I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt Printed/Typed Name	Information  ) 344-0675  Include that the contents and labeled and government regulation of the practicable more recomment; OR, If I am a at is available to me and the practicable of Materials  ON BEHALLY  SELECT	of this consignment at a distance and are in all respectors.  Jace to reduce the volument of treatment, a small quantity general that I can afford.  Signature	re fully and cts in prop	toxicity of w	vaste geni	erated to the	ne deg	my was	Month  Month  Month  D  Month	ate Day Ye Day Ye Solve Ye
15. Special Handling Instructions and Additional 11 a.  GENERATOR'S PHONE # (708)  16. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation if I am a large quantity generator, I certify that be economically practicable and that I have seand future threat to human health and the enviselect the best waste management method the Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt Printed/Typed Name  19. Discrepancy Indication Space	Information  ) 344–0675  Include that the contents and labeled marked, and labeled hal government regulation to have a program in philocoment, OR, If I am a at is available to me and of Materials  ON BEHALL  OF MATERIALS	of this consignment at a distribution of this consignment at distribution of the second of the secon	are fully and octs in propositions and altorage, or altor; I have	toxicity of widisposal cumade a go	vaste geni irrently av ood faith e	erated to the ariable to not to min	ne deg ne whi nimize	my was	Month  Month  Month  Month  Month	present ion and ate Day Yea
15. Special Handling Instructions and Additional 11a.  GENERATOR'S PHONE # (708)  16. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable internetional and nation if I am a large quantity generator, I certify that be economically practicable and that I have seand future threat to human health and the enviselect the best waste management method the Printed Typed Name  17. Transporter 1 Acknowledgement of Receipt Printed Typed Name  18. Transporter 2 Acknowledgement of Receipt	Information  ) 344–0675  Include that the contents and labeled marked, and labeled hal government regulation to have a program in philocoment, OR, If I am a at is available to me and of Materials  ON BEHALL  OF MATERIALS	of this consignment at a distribution of this consignment at distribution of the second of the secon	are fully and octs in propositions and altorage, or altor; I have	toxicity of widisposal cumade a go	vaste geni irrently av ood faith e	erated to the ariable to not to min	ne deg ne whi nimize	my was	Month  Month  Month  Month  Month	ate Day Ye Day Ye Sign Only

COPY 3, TSD COPY

#### V. WASTE COMPOSITION Total of components must equal 100% Components CAS# Average % Range 100% to Oil to to to to to to Analysis Attached to to to to to to to to to VI. CHARACTERISTICS METALS PRESENT -None 0.8 Odor Specific Gravity PPM Brown Color Aluminum Yes ✓ No PHYSICAL STATE -FLASHPOINT -Antimony Yes ☑ No Arsenic Yes ☐ < 73°F ☑ Nọ Percent 140°F - 199°F Barium Yes Yes Solid ☑ No Beryllium Yes ✓ No Sludge ☐ 100°F - 139°F Cadmium 100 Yes ✓ Liquid ✓ No Chromium ☑ No Exact Yes Gas Cobalt Yes ☑ No Copper ☐ Yes ☑ No LAYERING рΗ Lead Yes ☑ No < 2</p> 8 to 10 Maganese Yes ✓ No ☑ Homogeneous Mercury Yes ☑ No 2 to 4 10 to 12.5 ☐ Bilayered Nickel ☐ Yes ☑ No 4 to 6 > 12.5 Selenium Yes ✓ No ☐ Multilayered ✓ 6 to 8 Silver Yes ☑ No ☑ No Exact Thallium ☐ Yes Amount of layers Zinc Yes ☑ No BTU/lb >10000 Total Cyanide None Range ppm Ash % Present Reactive Cyanide None Range ppm **Total Sulfide** Water % None None Range ppm Sulfur % None Range Reactive Sulfide None ppm TOC Present Chlorine % None Range ppm None Fluorine % Range Bromine % None Range R PRESSURE @ 100°F -< 76.6 kPa (575 mmHg)</p> > 76.6 kPa (575 mmHg)

II. REGULA	TORY INF	ORMATION				
Texas Waste	Code	OUTS2061				
th zardous waste	determination base	d on the generator's detailed knowle	dge of the waste?		✓ Yes	☐ No
the nazardous waste	determination base	d on the analysis of the waste? If ye	s, please attach analysis.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	☑ Yes	☐ No
		is in 40 CFR 268.2(g)?			Yes	☑ No
this is a characteristic	cally hazardous was	te (i.e., D-Coded), does it contain any	underlying hazardous const	ituents	Yes	✓ No
		ify each constituent and their percen				[7] MO
		313 chemicals identified in 40 CFR			Yes	☑ No
d their percentages i	•				∟ res	Lill INO
es this waste contai	n any of the EHS ide	entified in section 302 of EPCRA? If	yes, list these chemicals, CAS	S #	☐ Yes	☑ No
d their percentages i		· ·	w.epa.gov/swercepp/ehs/e		<u> </u>	
this waste regulated	under the National E	Emissions Standard for Benzene Wa	ste Operations (40 CFR Part	61 Subpart FF)?	Yes	☑ No
	EPA Hazardous Waste No;	NR Subcategory	Hazardous Waste No	Subcategory		
Shipping Nam	e Not Regulated		Additional Descripto	гѕ		
echnical Names						
Hazard Clas	s	UN/NA Number	RQ	Packing Gro	up	
hereby certify that the info	ormation identified above exist, and that all known , , US DOT and State reg	ERTIFICATION  a and attached to this profile is complete and or suspected hazards have been disclosed.  ulations.  ATOR'S NAME	l also understand it is my respons			
	/		K			
7		CNATIDE	/ \	DATE		

Page 4 of 5



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

April 27, 2001

Ms. Liz Marble SET ENVIRONMENTAL, INC. 450 Sumac Road Wheeling, IL 60090

Post-it* Fax Note	7671	Date 9/21  # of
To Jan		From 3
Солберь.		Co.
Phone #		Phone to The Town
Fax #		

Project ID: National Castings

First Environmental File ID: 30737-40

Date Received: April 20, 2001

Dear Ms. Marble:

The above referenced samples were analyzed as per your request form.

#### PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publications: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the Analytical Report.

It has been a pleasure providing you with analytical services. Should you have any questions or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed

Project Manager



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

## Analytical Report

Client:

SET ENVIRONMENTAL

Project ID:

National Castings

Sample Number:

30740

Sample Description: Waste Compressor Oil

Lab File ID:

30737-40

Date Received:

04/20/01

Date Taken:

04/20/01

Time Taken:

Not Provided

Date Reported:

Analyte		Result	Units	Flags
PCBs Method 3580 Preparation Date: Analysis Date:	<b>0A/8082</b> 04/26/01 04/26/01			
Aroclor 1016		< 1.0	mg/kg	
Aroclor 1221		< 1.0	mg/kg	
Aroclor 1232		< 1.0	mg/kg	
Aroclor 1242		< 1.0	mg/kg	
Aroclor 1248		< 1.0	mg/kg	
Aroclor 1254		< 1.0	mg/kg	
Aroclor 1260		< 1.0	mg/kg	



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

## **Analytical Report**

Client:

SET ENVIRONMENTAL

Project ID:

**National Castings** 

04/20/01

30737

Date Received: Date Taken:

Sample Number:

Time Taken:

04/20/01 Not Provided

Sample Description: Oil Switches 1&2 Lab File ID:

30737-40

Date Reported:

Result

04/27/01

Analyte

Units

Flags

#### **PCBs Method 3580A/8082**

Preparation Date:

04/26/01

Analysis Date:

04/26/01

Analysis Date:	04/26/01		
Aroclor 1016		< 1.0	mg/kg
Aroclor 1221		< 1.0	mg/kg
Aroclor 1232		< 1.0	mg/kg
Aroclor 1242		< 1.0	mg/kg
Aroclor 1248		< 1.0	mg/kg
Aroclor 1254		< 1.0	mg/kg
Aroclor 1260		< 1.0	mg/kg



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

## **Analytical Report**

Client:

SET ENVIRONMENTAL

Project ID:

National Castings

Date Taken:

Date Received:

04/20/01

Sample Number:

30738

04/20/01

Sample Description: Transformer #3

Time Taken:

Not Provided

Lab File ID:

30737-40

Date Reported:

Analyte		Result	Units	Flags
PCBs Method 3580	)A/8082			
Preparation Date:	04/26/01			
Analysis Date:	04/26/01			
Aroclor 1016		< 1.0	mg/kg	
Aroclor 1221		< 1.0	mg/kg	
Aroclor 1232		< 1.0	mg/kg	
Aroclor 1242		< 1.0	mg/kg	
Aroclor 1248		< 1.0	mg/kg	
Aroclor 1254		< 1.0	mg/kg	
Aroclor 1260		< 1.0	mg/kg	



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

## **Analytical Report**

Client:

SET ENVIRONMENTAL

Project ID:

National Castings

04/20/01

Sample Number:

30739

Date Taken:

04/20/01

Sample Description:

Waste Oil

Time Taken:

Not Provided

Lab File ID:

30737-40

Date Reported:

Date Received:

Analyte		Result	Units	Flags
PCBs Method 3580 Preparation Date:	0 <b>A/8082</b> 04/26/01			
Analysis Date:	04/26/01			
Aroclor 1016		< 1:0	mg/kg	
Aroclor 1221		< 1.0	mg/kg	
Aroclor 1232		< 1.0	mg/kg	
Aroclor 1242		< 1.0	mg/kg	
Aroclor 1248		< 1.0	mg/kg	
Aroclor 1254		< 1.0	mg/kg	
Aroclor 1260		< 1.0	mg/kg	



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233 IEPA Certification #100292

## **Analytical Report**

Client:

SET ENVIRONMENTAL

Project ID:

National Castings

Date Received:

04/20/01

Sample Number:

30740

Date Taken:

04/20/01

Sample Description:

Waste Compressor Oil

Time Taken:

Not Provided

Lab File ID:

30737-40

Date Reported:

Analyte		Result	Units	Flags
PCBs Method 3580	)A/8082			
Preparation Date:	04/26/01			
Analysis Date:	04/26/01			
Aroclor 1016		< 1.0	mg/kg	
Aroclor 1221		< 1.0	mg/kg	
Aroclor 1232		< 1.0	mg/kg	
Aroclor 1242		< 1.0	mg/kg	
Aroclor 1248		< 1.0	mg/kg	
Aroclor 1254		< 1.0	mg/kg	
Aroclor 1260		< 1.0	mg/kg	

EQ Tracking #\_

## A WASTE CHARACTERIZATION REPORT

T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					
TO EXPEDITE YOUR WASTE APP	PROVAL, PLEA	ASE COMPL	ETE THIS FORM	ENTIRELY	
Please Choose C Michigan Disposal Waste Treatment Plant	9350 N. I-94 Ser-	vice Drive B	selleville, MI 48111	EPA ID # MID 000 724 681	
☐ Wayne Disposal, Inc. Site #2 Landfill 4	Thone: 800-592-54 9350 N. I-94 Serv	vice Drive B	ax: 800-592-5329	EPA ID # MID 048 090 688	
☐ Michigan Recovery Systems, Inc. 3	'hone: 800-592-54 6845 Van Born R 'hone: 800-521-09	Road R	ax: 800-592-5329 comulus, MI 48174	EPA ID # MID 060 975 844	
☐ EQIS - Transfer & Processing	none: 800-321-05 010 Old Rawsonv hone: 734-547-10	ville Road Y	ax: 734-326-9375 psilanti, MI 48197 ax: 734-480-9195	EPA ID # MIR 000 033 969	
Section 1 - Gene	rator & Cu	stomer In	formation	OPAGE Bib Anna Carlos Company	
SIC#			EQ	Customer No	
Generator EPA ID #: 140072317761	I	nvoicing Co	mpany SET Env		
Generator: National Castings, Inc.			umac Road		
Facility Address: 110 N. 25th Ave.	1		g State IL Zip 6	0000	
City: Metrose ParkState: 12 Zip: 60160	i	ountry <u>Unite</u>	•	2727	
County:		ounty <u>cime</u>	d Blates		
Mailing Add. (if diff.): Same	Ir	nvoicing Co	ntact <u>Star Gonza</u>	lez	
City: State: Zip:	P	hone <u>847-537</u>	<u>-9221</u>	Fax 847-537-9265	
Generator Contact: AI Flick Title:	T	achnical Ca	ntact	Morble	
Phone: (708) 344-0675 Fax: (708) 344-028	71/				
Fax. C/00/399-028	7   1	hone <u>847-58</u>	7-9221	Fax <u>847-537-9265</u>	
2.1) Shipping volume:   pallet 2.2) Shipping frequency:   One Time Only   Annu 2.2) DOT shipping name   Not Regulated	Quoi cubi dens char	2.3)Packaging: (check all that apply)  Bulk Solid (Yd³ < 2000 lbs/yd³)  Bulk Solid (Ton >2000 lbs/yd³)  Bulk Liquids (Gallons)  Cubic Yard Boxes  Drums  Other (palletized, 5 gal. pails, etc.)  Quoted bulk disposal charges for solid materials will be billed by the cubic yd., if waste density is less than 2,000 lbs. per cubic yd. If waste density is greater than 2,000 lbs. per cubic yd., then bulk disposal charges will be billed by the ton regardless of the approved container.			
Section 3 - 1	Physical Cl	haracterie	stics		
WASTE COMMON NAME: NON-PCB Transformer	#3. On	ained.	,		
3.1) Color (describe): 3.2) Odor (describe): 3.3) Physical state at 70 °F: (check all that apply)  Solid Dust Liquid Si	com	pounds, soil,	composition of the water, ppe, debris	e waste (i.e. key chemical s, etc.): Oraned to 100% to %	
3.4) Does this waste contain?: (check all that apply)  Free Liquids Metal fines Powders Oily residue Biodegradable sorbants NO!	/	Anclei	after al	to%to%to%to%  Total = 100 %	
3.5) Does this waste contain?: (check all that apply) No. 1 No. 2	3.7)		ste contain >50%	contaminated soil?	
Furans Radioactive waste Biohazard Explosives			than 2.5 inches in	debrie by volume? 1 size) Yes X No	

## Section 4 - Generating Process and Regulatory Information

4.1) Provide a detailed description of the process(es) generating this waste (attach flow diagram if available):

<u></u>	Transform	er ta	ken art	-d sen	ce an	do	trained.						
rsed	upon RCRA wast	e regulat	ions (40 C	FK 261) and M	Aichigan	Act 4	51 Rules:			7	Vaste (	Code(s)	2
4.2) I	s this an EPA RC	RA liste	<u>d</u> hazardo	us waste (F, K	(, P or U)	?	Yes		Ñο _			·	
4.3) Is	s this a MICHIG	AN hazar	dous wast	e (Other than	RCRA)?		Yes		No _			· · · · · · · · · · · · · · · · · · ·	
4.4) Is	s this a MICHIG	AN nonha	azardous li	quid industria	al waste?		Yes		No _	On the second se	······································		ж
4.5) Is	s this a UNIVER	SAL was	te?				Yes		νo				
4.6) Does this waste exceed LDR treatment standards?													
4.8) W 4.9) Is 4.10) V 4.11) I 4.12) I	s this an EPA RC What is the flash p s the waste an oxi What is the pH of Does this waste co Does this waste co s the waste surch	ooint of the dizer? this was ontain re- ontain re-	is waste? te? active cyar active sulfi	<2 nide ≥ 250 ppm de ≥ 500 ppm	∏ <90°I ∏ 2-4.9 a? ?	F	3)? Yes 90-140°F 90-140°F Yes 5-10 Yes Yes Yes Yes		,40-199°F No .0.1-12.4 No No	>20 □ ≥12			•
Code		ulatory		Concentrat	ion C	ode			tory Lev			ntratio	n
D004	Arsenic	LP (mg/. 5		above) v []Above	n	M24	m-Cresol	TCLP	(mg/L) 200	⊠ Be	(if abo	ove) ]Above _	
D005	Barium	100	Belov				p-Cresol		200	Bel		Above _	
D006	Cadmium	1	Belov				Cresols					_	
D007	Chromium	5	Belov						200	⊠ Bel		]Above _	
D008	Lead	5	Belov		-		1,4-Dichlorober		7.5	-	low _	Above _	
9	Mercury	0.2	Below Below		{		1,2-Dichloroeth		0.5	∑ Bel		Above _	
10نارا	Selenium	1	Below Below		1		1,1-Dichloroeth		0.7	⊠ Bel		Above _	
D011	Silver	5	Below		- 1		2,4-Dinitrotolu	ene	0.13	⊠ Bel		Above	
D012	Endrin	0.02	Below		I		Heptachlor		0.008	🔀 Bel		Above _	
D013	Lindane						Hexachloroben:		0.13.	⊠ Bel		Above _	
		0.4	===		- 1		Hexachlorobute		0.5	⊠ Bel	.ow 🔲	Above _	
	Methoxychlor	10	Below		D0	034	Hexachloroetha	ine	3.0	🛛 Bel		Above _	
	Toxaphene	0.5	Below	Above	D0	035	Methyl Ethyl K	etone	200	🛛 Bel		Above _	
D016	2,4-D	10	Below	Above	D0	086	Nitrobenzene		2	🛛 Bel		Above _	
	2,4,5-TP(Silvex)	1	Below	Above	1 .	037	Pentachlorophe	nol	100	⊠ Bel		Above _	
	Benzene	0.5	K Below	Above	D(	038	Pyridine		5	🗵 Bel		Above _	
D019 D020	CarbonTetrachlori		₩ Pelow	Above		039 '	<b>Tetrachloroethy</b>	/lene	0.7	⊠ Bel		Above _	
_	Chlordane	0.03	Below		D0	040	Trichloroethyle:	ne	0,5	🔯 Bel		Above	
	Chlorobenzene	100	Below		D0	041	2,4,5-Trichlorop	henol	400	🔯 Bel		Above _	
	Chloroform	6.0		Above	D0	042	2,4,6-Trichlorop	henol	2	⊠ Bel		Above	
	o-Cresol	200		Above	DO	043	Vinyl Chloride		0.2	🔯 Bel		Above _	
4.14) T	he hazardous con	stituent	informatio	n is based <u>on:</u>			•				_		
				<i>P</i>	Analysis (	asel¶)	e attach for revie	w) [	_ Genera	tor Know	ledge	A Bo	oth
4.15) II	f this is a characte	eristic (D	-coded) has	zardous waste	, does it o	conta	in underlying h	azardo	us constit	uents (L	ist in S	Secton5)?	?
m.m.				** * ^	* 4 -	,_ •	f 0 -			Yes	No	N/A	<u>A</u> .
	Dardam	tha 6-11	Sec	non 5 - Co	nstitue	ent l	Information	L					
	1) MVOC (Mich	igan Wal-	ung nems	in the EW Kes	ource Gu	ude a	nd indicate the	ir conce	entrations	s below:			
	3) UHC (III	ream vois	Hazardon Hazardon	uc Compounds s Constituents	s) <b>2)</b> 1	UUVI AV m	OC (Subpart C	C Vola	tile Organ	ис Сомр	ounds)	)	
						4 <i>)</i> k	'RI (Toxic Relea	ise Inv	entory Co	nstituen	ts)		
ÜH	C?	- 230 CO112	aranching III	your waste st	ream, the	eir co	ncentrations, a. UHC?	na circ	ue Yes or	No for U	HC:		
**es-					<del> </del> }								
	-No				<b>─</b>   }		Yes-No Yes-No		** <del>***********************************</del>				
Yes-							cs-No	-			-		
				-	<u> </u>			······································		·	***		

	Section 6 - PCB & TSCA Information	-						
6.1) What i	6.1) What is the concentration of PCBs in the waste? None 🗌 0-5 ppm 🔲 6-49 pp 🔲 50-499 ppm 🔲 500+ppm							
6.2) Does t	he waste contain PCB contamination from a source with a concentration ≥50							
6.3) Does t	his waste contain free liquids? (use paint filter test)	☐ Yes No						
6.4) Has th	is waste been processed into a non-liquid form?  Non-PCB	☐ Yes ☐ No						
If yes,	what was the concentration of PCBs prior to processing? N/A	0-499 ppm 500+ ppm						
6.5) Is the	non-liquid PCB waste in the form of soil, rags, debris, or other contaminated	media? Yes No						
	u a PCB capacitor manufacturer or a PCB equipment manufacturer?	Yes No						
	6.7) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/							
flushed of a	all PCBs and decontaminated in accordance with 40 CFR 761.60(b)?	√A Yes No						
	Section 7 - Benzene NESHAP Information	ı						
NESHAP SIC CODES	7.1) Does the waste stream come from a facility with one of the SIC codes	listed under NESHAP?						
2812 2836 287 <i>5</i>		Yes No						
2813 2841 2879 2816 2842 2891	7.2) Does your company manage wastes from facilities with Total Annual	Benzene (TAB) ≥10 Mg/year?						
2819 2843 2892		Yes No						
2821 2844 2893 2822 2851 2895	If you answered "NO" to question 7.1 AND 7.2 please skip to Section 8.							
2823 2861 2899	7.3) Does the waste contain >10 % water?	☐ Yes ☐ No						
2824 2865 2911 2833 2869 3312	7.4) What is the TAB quantity for your facility?Mg/Year							
2834 2873 4953	7.5) Does the waste contain >1.0 mg/kg total Benzene?	Yes No						
2835 2874 9511	7.6) What is the total Benzene concentration in your waste?	percent or ppmw.						
	(Do not use TCLP analytical results. Acceptable laboratory methods includ	e 8020, 8240, 8260, 602, and 624.)						
2) Does this w 8.3) Is this wast	easte contain any "Potentially Odorous Constituents" as defined in the EQ Researce Cuide? aste contain any MVOC constituents as defined in the EQ Resource Guide? se subject to Subpart CC regulation (i.e., contain >500ppm (VOCs) Volatile Organi 8.2 or 8.3 is "yes"please indicate the constituents and their concentrations in the constituents.	Yes No c Compounds)? Yes No						
	Section 9 - Reclamation/Recycling/Fuel Blend → Complete for Michigan Recovery Systems ONL	ding Y						
9.1) Heat value	(BTU/lb):Chlorine(%):Water (%):	Solids (%):						
9.2) Is this mate	rial a recoverable petroleum product? Yes No							
	erial for wastewater treatment? Yes No							
	or 0.2 is 'yes"-please attach the Wastewater Addendum Form found in the	EO Passauras Calla						
	Section 10 - Certification	E E& Resource Guide.						
I certify that a	ll information (including attachments) is complete and factual and is	an accurate representation of the						
known and sus	spected hazards, pertaining to the waste described herein. I authorize	e EO's Resource Team to add						
supplemental	information to the waste approval file, provided I am contacted and e	ive verbal permission I						
authorize E.G.s. Resource Team to obtain a sample from any waste shipment for purposes of verification and								
confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by the attached Standard France and Fr								
by, the attache	d Standard Terms and Conditions.	to, and Generator shall be bound						
Generator Signa	ture X Printed Name							
Company	ture X Printed Name Title	Date						
The generator's \$	gnature must appear on the EO Waste Characterization Report. If the governor had	authorized a third-party to continue this						
hough the EQ f	on notice (on generator letterhead) must accompany this submittal. Resource Team is authorized to make certain modifications to the information provided and waste constituents must be documented by the generator.	I						

© 2000 EQ - The Environmental Quality Company

Page 3 (1/00)

P.12

# A WASTE CHARACTERIZATION REPORT

TO EXPEDITE YOUR WASTE APPRO	DVAL, PLEASE COMPLETE THIS FORM ENTIRELY
Please Chaose On	e EQ Management Facility
Michigan Disposal Waste Treatment Plant 4935	50 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831 ne: 800-592-5489 Fax: 800-592-5329
☐ Wayne Disposal, Inc. Site #2 Landfill 4935	50 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 638 ne: 500-592-5489 Fax: 800-592-5329
Michigan Recovery Systems, Inc. 3634	45 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844 ne: 800-521-0998 Fax: 784-826-9375
The Walter and the second seco	Old Rawsonville Road Ypsilanti, MI 48197 EPA ID # MIR 000 033 969
Section 1 - Genera	ttor & Customer Information
SIC#	EQ Customer No
Generator EPA ID #: // D0723/776/	Invoicing Company SET Environmental
Generator: National Castings, Inc.	Address 450 Sumac Road
Facility Address: 110 N. 25th Ave	City Wheeling State L Zip 60090
City: Mell'ose Park State: 16 Zip: 60160 County:	Country United States
Mailing Add.(if diff.): Same	Invoicing Contact Star Gonzalez
City: State: Zip:	Phone <u>847-537-9221</u> Fax <u>847-537-9265</u>
Generator Contact: AI Flick	
Title:	Technical Contact LIZ Marbie
Phone: <u>(708)</u> 344-0675 Fax: (708) 344-028	γ Phone 847-537-9221 Fax 847-537-9265
2.1) Shipping volume: 201 Switches 2.2) Shipping frequency: 20 One Time Only Annual 2.2) DOT shipping name  Not Regulated	Bulk Solid (Ton >2000 lbs/yd³)  Bulk Liquids (Gallons)  Cubic Yard Boxes  Drums  Other (palletized, 5 gal, pails, etc.)  Quoted bulk disposal charges for solid materials will be hilled by the cubic yd., if waste density is less than 2,000 lbs. per cubic yd. If waste density is greater than 2,000 lbs. per cubic yd., then bulk disposal charges will be billed by the ton regardless of the approved container.
Section 3 - Pi	hysical Characteristics
WASTE COMMON NAME:  NON PCB 012	LSWITCHES 142
3.1) Color (describe): 3.2) Odor (describe): 3.3) Physical state at 70 °F: (check all that apply) Solid Dust Liquid Sluc	3.6) Describe the composition of the waste (i.e. key chemical compounds, soil, water, ppe, debris, etc.):  0.1/5 witches drained to 100%
3.4) Does this waste contain?: (check all that apply) Free Liquids Metal fines PowdersOily residue Biodegradable sorbants NONE	to%to%to%to%
3.5) Does this waste contain?: (check all that apply) NOI  Asbestos - friable Pyrophoric waste	NE (Analsis Attached) Total = 100%  8.7) Does this waste contain >50% contaminated soil?
Asbestos - non-friable	Yes No

# MAY-01-2001 11:31 SET ENVIRONMENTAL Section 4 - Generating Process and Regulatory Information

4.1) Provide a detailed description of the process(es) generating this waste (attach flow diagram if available):

	Ta	ken o	at of	senia a	2nd	draine	d	_		
Tased	upon RCRA wa	aste regular	tions (40 CF	R 261) and Michig	an Act	451 Rules:			Waste (	Dode(s)
4.2) I	s this an EPA I	RCRA liste	<u>ed</u> hazardou	s waste (F, K, P or	יוטי?	Yes	No.			· ·
4.3) I	s this a MICHI	GAN hazai	rdous waste	(Other than RCRA	<u>s</u> )?	☐ Yes	⊠ No	•		
4.4) I:	s this a MICHI	GAN nonh	azardous lig	uid industrial was	te?	☐ Yes	No.		- Access	·
4.5) Is	s this a UNIVE	RSAL was	te?			Yes	No.			
4.6) D	oes this waste	exceed LD	R treatment	standards?		Yes	No			
4.8) V 4.9) Is 4.10) 4.11) 4.12)	What is the flash s the waste and What is the pH Does this waste Does this waste	n point of the exidizer? of this was contain re contain re	nis waste? ste? active cyani active sulfid	<2 2- de ≥ 250 ppm?	001-D04 00°F 4.9	13)? Yes 90-140°I Yes 5-10 Yes Yes Yes Yes Yes	No. 140.1 No. 10.1 No. No. No.	199°F -12.4	>200°F □≥12.5	
Code		egulatory		Concentration	Code		Regulator		el Conce	ntration
D004		CLP (mg/	PRESENTA	bove)			TCLP (m		(if abo	
D004	Arsenic	5	Below	Above	1	m-Cresol	20		🔀 Below 🔝	
D005	Barium	100	Below	Above	1	p-Cresol	20	0	🛛 Below 🗌	
D006	Cadmium	1	Below	Above		Cresols	20	0	⊠ Below □	Above
D007	Chromium	5	Below	Above		1,4-Dichlorobe		5	igthedge Below $igsqcup$	Above
D008	Lead	5	⊠ Below	Above		1,2-Dichlorost		5	🛛 Below 🔲	Above
, ,0	Mercury	0,2	Below	Above		1,1-Dichloroet		7		Above
Doll Doll	Selenium	1	Below	Above		2,4-Dinitrotolu	iene 0.:	13		Above
D011	Silver	5	Below	Above		Heptachlor		800		Above
D012 D013	Endrin	0.02	Below	Above		Hexachlorober		.3	Below 🗌	Above
D013 D014	Lindane	0.4	Below	Above	1	Hexachlorobut		i	🔀 Below 🔲	Above
D014 D015	Methoxychlor	10	⊠ Below	Above	Ł	Hexachloroeth		)		Above
	Toxaphene	0.5	Below	Above		Methyl Ethyl l	Ketone 20	0	🛛 Below 🔲	Above
D016 D017	2,4-D 2,4,5-TP(Silve)	10	Below	Above		Nitrobenzene	2		🛛 Below 🔲	Above
D017		*	Below	Above		Pentachloroph	enol 10	0		Above
D010	CarbonTetrachle	0.5 :4.0.5	⊠ Below	Above		Pyridine	5			Above
D020	Chlordane	0.03	Below Below	Above		Tetrachloroeth			Below []	Above
D021	Chlorobenzene		Below	Above		Trichloroethyl				Above
D022	Chloroform	6.0	Below Below	Above		2,4,5-Trichloro		0	= ==	Above
D023	o-Cresol	200	Below	Above		2,4,6-Trichloro				Above
	The hazardous (				D043	Vinyl Chloride	0.2	!	Below [].	Above
4.15) I	f this is a chara	acteristic (D	-coded) haz	Analy: ardous waste, does		se attach for revi ain underlying		constit	tor Knowledge tuents (List in S Yes   No	Both Secton5)? N/A
Section 5 - Constituent Information  Review the following items in the EQ Resource Guide and indicate their concentrations below:  1) MVOC (Michigan Volatile Organic Compounds) 2) CCVOC (Subpart CC Volatile Organic Compounds) 3) UHC (Underlying Hazardous Constituents) 4) TRI (Toxic Release Inventory Constituents)  Indicate all constituents in your waste stream, their concentrations, and circle Yes or No for UHC:										
Ves			<del></del>			UHC?		~ <del>-</del>		
	-No					Yes-No		••••		
Yes						Yes-No Yes-No				
					L	A 000-110				

	6.1) What is the concentration of PCBs in the waste? 🛮 None 🔲 0-5 ppm 🔠 6-49 pp 🔠 50-499 ppm 🔲 500+ppm								
6.2) Does th	e waste contain POB contamination from a source with a concentration ≥50 ppm?	Yes	No						
	his waste contain free liquids? (use paint filter test) Non-PCB	Yes	No.						
	s waste been processed into a non-liquid form?	Yes	□ No						
If yes,	what was the concentration of PCBs prior to processing? N/A 0-499	ppm 5	00+ ppm						
	ion-liquid PCB waste in the form of soil, rags, debris, or other contaminated media?		□ No						
	a PCB capacitor manufacturer or a PCB equipment manufacturer?	Yes	☐ No						
6.7) Has the	PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical eq	qui <u>pm</u> ent) bec	en drained/						
flushed of a	ll PCBs and decontaminated in accordance with 40 CFR 761.60(b)?	Yes	No						
	Section 7 - Benzene NESHAP Information								
NESHAP SIC CODES	7.1) Does the waste stream come from a facility with one of the SIC codes listed u	nder NESHA	P?						
2812 2836 2875		Yes	⊠ No						
2813 2841 2879 2816 2842 2891	7.2) Does your company manage wastes from facilities with Total Annual Benzene	e (TAB) ≥10 ľ	Mg/year?						
2819 2843 2892		Yes	⊠N₀						
2821 2844 2893   2822 2851 2895	→ If you answered "NO" to question 7.1 <u>AND</u> 7.2 please skip to Section 8.								
2823 2861 2899	7.3) Does the waste contain >10 % water?	Yes	□ No						
2824 2865 2911 2833 2869 3312	7.4) What is the TAB quantity for your facility?Mg/Year								
2834 2873 4953	7.5) Does the waste contain >1.0 mg/kg total Benzene?	Yes	□ No						
2835 2874 9511	7.6) What is the total Benzene concentration in your waste?percent		ppmw.						
	(Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8	3240, 8260, 602	?, and 621.)						
8.1) Does this w 2) Does this w 8.3) Is this wast	Section 8 - Waste Constituent Information  OMPLETE FOR MICHIGAN DISPOSAL WASTE TREATMENT PLANT, WAYNE DISPOSAL, A  aste contain any "Potentially Odorous Constituents" as defined in the EQ Resource aste contain any MVOC constituents as defined in the EQ Resource Guide?  e subject to Subpart CC regulation (i.e., contain >500ppm (VOCs) Volatile Organic Compo  3.2 or 8.3 is "yes"-please indicate the constituents and their concentrations in the ta	Guide? Ye Ye unds)? Ye	s No s No es No						
→ If 8.1,									
→ If 8.1,	Section 9 - Reclamation/Recycling/Fuel Blending  → Complete for Michigan Recovery Systems ONLY								
9.1) Heat value	→ Complete for Michigan Recovery Systems ONLY	ida (%);							
9.1) Heat value	→ Complete for Michigan Recovery Systems ONLY	ida (%);							
9.1) Heat value (	→ Complete for Michigan Recovery Systems ONLY         BTU/lb):       Chlorine(%):       Water (%):       Sol         rial a recoverable petroleum product?       Yes No	ìda (%);							
9.1) Heat value (9.2) Is this mate (9.3) Is this mate	Complete for Michigan Recovery Systems ONLY  BTU/lb): Chlorine(%): Water (%): Sol  rial a recoverable petroleum product? Yes No  rial for wastewater treatment? Yes No								
9.1) Heat value (9.2) Is this mate 9.3) Is this mate	Complete for Michigan Recovery Systems ONLY  BTU/lb): Chlorine(%): Water (%): Sol rial a recoverable petroleum product? Yes No rial for wastewater treatment? Yes No  19.2 is "yes"-please attach the Wastewater Addendum Form found in the EQ Reserved Section 10 - Certification	esource Gui	de.						
9.1) Heat value (9.2) Is this mate (9.3) Is this mate (9.3) Is this mate (9.3) Is this mate (9.4) If 9.1 experience (9.4) It certify that all known and sus supplemental if authorize EQ's confirmation. It delivered, or teby, the attached	Complete for Michigan Recovery Systems ONLY  (BTU/lb): Chlorine(%): Water (%): Solutial a recoverable petroleum product? Yes No  rial for wastewater treatment? Yes No  1	esource Gui urate repres Resource Te bal permissi f verification	de. sentation of the eam to add ion. I						
9.1) Heat value (9.2) Is this mate (9.3) Is this mate (9.3) Is this mate (9.3) Is this mate (9.4) If 9.1 experience (9.4) It certify that all known and sus supplemental if authorize EQ's confirmation. It delivered, or teby, the attached	Complete for Michigan Recovery Systems ONLY  (BTU/lb): Chlorine(%): Water (%): Solutial a recoverable petroleum product? Yes No  rial for wastewater treatment? Yes No  1	esource Gui urate repres Resource Te bal permissi f verification	de. sentation of the eam to add ion. I						
9.1) Heat value (9.2) Is this mate 9.3) Is this mate If 9.1 e  I certify that alknown and sus supplemental in authorize EQ's confirmation. Idelivered, or teby, the attache	Complete for Michigan Recovery Systems ONLY  BTU/lb):  Chlorine(%):  Water (%):  Sol  rial a recoverable petroleum product?  Yes  No  rial for wastewater treatment?  Yes  No  Section 10 - Certification  I information (including attachments) is complete and factual and is an accupected hazards, pertaining to the waste described herein. I authorize EQ's information to the waste approval file, provided I am contacted and give very Resource Team to obtain a sample from any waste shipment for purposes of agree that, if EQ approves the waste described herein, all such wastes that indered to EQ by Generator or on Generator's behalf shall be subject to, and distandard Terms and Conditions.	esource Gui urate repres Resource Te bal permissi f verification	de. sentation of the eam to add ion. I in and orted, shall be bound						

	EQ Tracking #
WASTE CHARA	ACTERIZATION REPORT
TO EXPEDITE YOUR WASTE APPROVA	L. PLEASE COMPLETE THIS FORMENTIRELY
Please Choose One	EQ Management Facility
O Michigan Disposal Waste Treatment Plant 49350 N. I-6 (Stabilization and Treatment) Phone: 800-	94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831 592-5489 Fax: 800-592-5329
(Solvent Recycling, Fuel Blending, WW Treatment)  Phone: 800- 36345 Van I (Solvent Recycling, Fuel Blending, WW Treatment)  Phone: 800- 1010 Old Ra	Born Road Romulus, MI 48174 EPA ID # MID 060 975 844 521-0998 Fax: 734-326-9375
	547-1000 Fax: 734-480-9195
Section 1 - Generator	& Customer Information
SIC #  Generator EPA ID # / LD 0 72 317 761  Generator	EQ:Customer No. 1100 Invoicing Company SET ENVIRONMENTAL Address 450 SUMAL ROAD City WHEELING State 1L Zip 60090 Country
Mailing Address (if different) ABC/NACO INC.  2001 Bufferfield Nd, Stc 502  City Danners Grave State 12 Zip 60515	Invoicing ContactFax
Generator Contact A) Flick  Title  Phone (708) 344-0675 Fax (708) 344-0284	Technical Contact <u>L12 Marble</u> Phone 847-537-9201 Fax 847-537-92 (
	nd Packaging Information
2.1) Shipping volume: /X55 Shipping frequency: One Time Only Annual	2.3)Packaging: (check all that apply)  Bulk Solid (Yd3 < 2000 lbs/yd3)
2.2) DOT shipping name Not Resulated	Bulk Solid (Ton >2000 lbs/yds)  Bulk Liquids (Gallons)  Cubic Yard Boxes  Drums
Density:lbs./gallon or lbs./cubic yard (or) Specific Gravity: > ].	Other (palletized, 5 gal. pails, etc.)  Quoted bulk disposal charges for solid materials will be billed by the cubic yd., if waste density is less than 2,000 lbs. per cubic yd. If waste density is greater than 2,000 lbs. per cubic yd., then bulk disposal charges will be billed by the ton regardless of the approved container.
Section 3 - Physic	al Characteristics
Core Wash C	
<ul> <li>3.1) Color (describe):</li></ul>	3.6) Describe the composition of the waste (i.e. key chemical compounds, soil, water, ppe, debris, etc.):
3.4) Does this waste contain?: (check all that apply)  Free Liquids  Metal fines Powders Oily residue  Biodegradable sorbants NONE  3.5) Does this waste contain?: (check all that apply) NONE	Water to 61%
Asbestos - friable Pyrophoric waste  Asbestos - non-friable Reactive waste  Dioxins Shock Sensitive waste	(Avalysis Attached) Total = 100%  3.7) Does this waste contain > 50% contaminated soil?  Yes A No
☐ Furans ☐ Radioactive waste ☐ Biohazard ☐ Explosives	3.8) Does this waste contain >50% debris by volume? (debris is greater than 2.5 inches in size) Yes No

571

4.1) Provide	s detailed o	ection	1 4 - Ges	nerating Proce	ess an	d Regula	atory Info	)rmat	ion	<u> </u>	
to the state of th		isea		Total 20	mg uns	waste (atta	n now gragi	am it av	vailable):	(OLOQUINO)	
,A.,		<u>x.a</u>	) 04/	apreo m	47.C	ray,					
Based upon R	CRA waste	e regular	tions (40 C	FR 261) and Michi	gan Act	451 Rules:			W	aste Code(s	
4.2) Is this a	Is this an EPA RCRA <u>listed</u> hazardous waste (F, K, P or				(U)?	☐ Yes	N	0	<del>Vaccinical Material Control of the </del>		
	Is this a MICHIGAN hazardous waste (Other than RCR					Q Yes	ØΝ	5	(111,1111111)	and the second of the second o	
	Is this a MICHIGAN nonhazardous liquid industrial was				ste?	☐ Yes	N				
	Is this a UNIVERSAL waste?  Does this waste exceed LDR treatment standards?				Q Yes	N.	ס				
						Q Yes	<b>M</b> N				
4.7) is this at	n EPA RCI	RA chac	<u>acteristic</u> l	nazardous waste (D	001-D0		N				
4.8) What is a 4.9) Is the wa	me uzsn po	oint of th	nis waste?	□ <90°F		Q 90-1			-199°F 炬	<b>2</b> (>200°F	
4.10) What is			e?	O<2 O2	4.0	□ Yes   <b>2</b> 5-10	No		Dist	_	
4.11) Does this	s waste con	tain rea	ctive cvani	ide ≥ 250 ppm?	-4.5	Yes 7	D No	.1-12.4	□≥12.	5	
4.12) Does this	s waste con	tain rea	ctive sulfi	de ≥ 500 ppm?		Q Yes	No				
4.13) Is the wa	iste surchar	rge exen	pt? (attacl	h surcharge form)		Yes	ANO				
Code	Regulat	ory Lev (mg/L)		ncentration	Code	R	egulatory l		Concentr		
D004 Arsenic	الأنف <sup>ي</sup> بد	(mg/L) 5		if above)  QAbove	D024	m-Cresol	TCLP (mg		(if abo		
D005 Barium		100	Below	QAbove		p-Cresol		200	Below	Above_	
D006 Cadmiu	m	1	Below	QAbove		Cresols		200		/ QAbove_	
D007 Chromit	ım	5	D Below	<b>Q</b> Above	1	1,4-Dichlor	-nhoman-	200	The Relow	/ QAbove_	
D008 Lead		5	D Below	QAbove_		1,4-Dichlor		7.5 0.5	THE BOLOW	∕ QAbove_ ⁄ QAbove_	
D009 Mercury		0.2	W Below	QAbove		I.1-Dichlor		0.7	D Below	Above_	
D010 Seleniur D011 Silver	n	1 -	<b>₩</b> Below	Above		2,4-Dinitro		0.13	Below	QAbove_	·
0011 Silver 0012 Endrin		5 0.02	Below	QAbove		Heptachlor		0.008	Below	Above_	
0013 Lindane	į	0.02	(I) Below	QAbove		Hexachlord		0.13	D Below	QAbove_	
0014 Methoxy		10	Below	QAbove		Hexachloro		0.5	Below	- DAbove_	<del></del>
0015 Toxaphe		0.5	Below	QAbove		Hexachloro		3.0	Below	QAbove_	
D016 2,4-D		10	4 Below	QAbove	10033	Methyl Eth Nitrobenze	iyi Ketone	200	Below	QAbove_	
0017 2,4,5-TP		1	Below	QAbove		Pentachlor		2 100	O Below	QAbove_	<del></del>
0018 Benzene		0.5	Below	CIADOVE	D038	Pyridine	obruer107	5	The palare	QAbove QAbove	
0019 CarbonTe	etrachloride		W Below	QAbove		Tetrachloro	ethvlene	0.7	D Relow	QAbove_	
0020 Chiordar 0021 Chlorobe		0.03	Below	-JAbove	D040	Trichloroeti	hylene	0.5	Below	QAbove_	
0022 Chlorofor		100 6.0	The Below	QAbove	D041	2,4,5-Trichl	oropheno1	400	Ф Below	QAbove_	
0023 o-Cresol		200	Below	OAbove	D042	2,4,6-Trichl Vinyl Chlor	orophenol	2 0.2	4 Below	QAbove_ QAbove	
						viiiyi Ciddi	Me	U.Z ·	AR DETOM	UADove	
1.14) The haz:	ardous cons	stituent	informatio	on is based on: An	ı ıalysis (	Please attac	h for review	) 🗆 G	enerator Kn	owledge	ОВ
				zardous waste, does							
	·			Table Naste, doe.	s at come	ant dilderly.	ng nazardot O No		ituențs (Lisi <b>M</b> N/A	in Secton5	)?
			Sec	tion 5 - Consti	tuent	Informa	tion		1		
4 J & Me 1	Review th	ne follow	ring items	in the EQ Resource	Guide:	and indicate	their concer	trations	s below:		
3)	OC (Micuis	gan vola	itile Organ	ic Compounds) : s Constituents)	2) CCV	OC (Subpar	rt CC Volati Velease Inve	le Organ	nic Compour	nds)	
				your waste stream,	their c	Oncentration	s. and decla	Yacari	No for 1 120		
UHC?					<u></u>	UHC?	o, and the	1 62 OL	NO IOI UNC	·	—–
Yes-No					-	Yes-No		<del></del>		<del></del>	
Yes-No						Yes-No				<u></u>	
Yes-No						Yes-No				<u> </u>	-

**************************************		, <u>, , , , , , , , , , , , , , , , , , </u>			
• • • • • • • • • • • • • • • • • • • •	Section	n 6 - PCB & TSCA II	nformation	•	
6.1) What is the	he concentration of PCBs in the w	/aste? 🔎 None 🛭 0-5 pr	om 🗆 6-49 ppm 🤇	250-499 ppm [	<b>2</b> 500+ppm
6.2) Does the	waste contain PCB contamination	n from a <u>source</u> with a conc	entration ≥50 ppm?		ZNo
6.3) Does this	waste contain free liquids? (use p	aint filter test)			No
6.4) Has this o	waste been processed into a non-li	iquid form?		_	2 No
	at was the concentration of PCBs		O N/A	Q 0-499 ppm 0	
6.5) Is the non	l-liquid PCB waste in the form of s	soil, rags, debris, or other c	contaminated media?	Yes	) No
6.6) Are you a	PCB capacitor manufacturer or a	PCB equipment manufact	urer?	☐ Yes ☐	DNo
6.7) Has the P	CB Article (e.g., transformer, hyd	raulic machine, PCB-conta	aminated electrical e		rained/flushed of
an FCBs a	and decontaminated in accordance	e with 40 CFR 761.60(b)?	□ N/A	☐Yes □	<b>]</b> No
	Section 7	- Benzene NESHAP	Information		
NESHAP SIC	7.1) Does this waste stream cor	ntain Benzene? ( if "no" to :	7.1, please skip to se	ction 8)	OYes AN
CODES	7.2) Does the waste stream com				? DYes N
2812 2836 2875 2813 2841 2879	7.3) Does your company manag	e wastes from facilities wi	th Total Annual Ben	zene(TAB)≥10 Mg	/year? DYes N
2816 2842 2891	→ If you answered "NO" to questi	on 7.2 <u>AND</u> 7.3 please skip to	Section 8.		
2819 2843 2892	7.4) Does the waste contain >1				QYes Q.N.
2821 2944 2893 2822 2951 2895	7.5) What is the TAB quantity f	for your facility?		Mg/Year	
2823 2861 2899	7.6) Does the waste contain >1.0	0 mg/kg total Benzene?	•	•	OYes Q N
2824 2865 2911	7.7) What is the total Benzene of	concentration in your wast	e? percent or	rppmw	
2833 2869 3312 2834 2873 4953	(Do not use TCLP analytical	results. Acceptable labora	tory methods include	8020, 8240, 8260	
2835 2874 9511					002, 01.0 00 4.7
	Sect	ion 8 - Waste Consti	ituent Informa	tion	
→ CO	mplete for <u>michican disposa</u> i	<u>L WASTE TREATMENT PLAI</u>	NT, WAYNE DISPOS	L, and <u>eqis t</u> æp	
8.1) Does this waste	contain any "Potentially Odorous	s Constituents" as defined	in the FO Recourse		☐ Yes 🌠 No
o.c) Does this waste	e contain any MVOC constituents	as defined in the EQ Resor	urce Guide?		Yes Divo
8.3) Is this waste su	ibject to Subpart CC regulation (i.	.e., contain ≥500ppm (VOC	S) Volatile Organic	Compounds)?	D Yes A No
→ If 8.1, 6.2 d	or 8.3 is "yes"please indicate the	constituents and their con	centrations in the ta	ble provided in Se	ection 5
	Section 9 - Rec	clamation/Recyclin	a/E-ral Dlandin		
	→ Complete	for Michigan Recovery	g/r uer <i>Dienum</i> Systems ONLY	8	
9.1) Heat value (BT				-	
	a recoverable petroleum produce	Water (%):	Soli	ds (%):	
					OYes ONo
	for wastewater treatment?	•			□Yes □No
4 119.1 or 92	dis yes"-please attach the Waste	water Addendum Form	found in the EQ Res	ource Guide.	
	Se	ction 10 - Certifica	tion		
l certify that all in	formation (including attachmer	ofs) is complete and factor	sal and is an accum	ite representatio	n of the known
b 100000	was to the master the	SCITORU DEFEID I SUPPOR	174 MILE DOCALISAS		
STIP OF TRUMPING	waste applicatine provided i:	am contacted and own we	orbal assemiacion T	markly and my POL I	
	our orry weste summingly like the	HILLIANSES OF VARIOCATION AR	ንር? <i>ለሲ</i> ያያየችንምምን ላይ አ <sub>ላ</sub> ል - ፲ /		
behalf shall be subj	rein, all such wastes that are tr ject to, and Generator shall be l	ansported, delivered, or bound by, the attached S	tendered to EQ by	Generator or on	Generator's
	<del>K</del>			( Conditions,	
			me		
Company		Title		Date	
he generator's sign	ature must appear on the EO Wast	te Characterization Donnet	lé sha canara	/\	
THE PART OF THE PA	QUIGE THAM IS AUTHORIZED TA MEDA	COP931#1 === #1#1 == #1 -   -   4 -   1		led on this form, t	he addition or
	des and waste constituents must	be documented by the ger	nerator.	<b>/, -</b>	

APR 27 '01 13:04

March 25, 1985

Loretto Hospital
% Dir. of Public Relations: Mr. A. Cruz
645 S. Central Avenue
Chicago, IL 60644

Dear Mr. Cruz:

Enclosed please find a copy of the Contingency Plan prepared by National Castings - Cicero Works, which is submitted in accordance with the Environmental Protection Agency (EPA) regulations under the Resource Conservation and Recovery Act (RCRA).

Our facility has four electric Arc Furnaces and an A.O.D. steel refining process that requires two fume and dust pollution emission control baghouses. The dust generated from these baghouses exceeds the Federal Environmental Protection Agency's regulations with regard to maximum allowable concentrations for Cadmium and Lead. Consequently, Cicero Works is regarded as a hazardous waste generating facility.

The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust type of material that is: Non-explosive; Non-ignitable; Non-reactive; and is Non-infectious. The clean up of an accidental spill or release will not require any special equipment other than a shovel, broom, and plastic bag to contain any release material.

Due to the generated hazardous waste's characteristics, this facility's operation does not provide a significant potential for causing an environmental disruption or endangerment to public health or safety.

If there are any questions, or further information is required, do not hesitate to contact me at 863-4800, extenstion 409. Please acknowledge receipt of the enclosed plan.

Sincerely,

ERIK MIGLANS

Project Engineer

EM/kz encl.

cc: M. Babbitt

D. Kuzmenka

R. Morris

D. Rinner

T. Zaberdac

P. Zearfoss Jr.

File

March 25, 1985

Town of Cicero Fire Dept. Headquarters , % Fire Marshall: Mr. Mel Gregory 5303 25th Avenue Cicero, IL 60650

Dear Mr. Gregory:

Enclosed please find a copy of the Contingency Plan prepared by National Castings - Cicero Works, which is submitted in accordance with the Environmental Protection Agency (EPA) regulations under the Resource Conservation and Recovery Act (RCRA).

Our facility has four electric Arc Furnaces and an A.O.D. steel refining process that requires two fume and dust pollution emission control baghouses. The dust generated from these baghouses exceeds the Federal Environmental Protection Agency's regulations with regard to maximum allowable concentrations for Cadmium and Lead. Consequently, Cicero Works is regarded as a hazardous waste generating facility.

The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust type of material that is: Non-explosive; Non-ignitable; Non-reactive; and is Non-infectious. The clean up of an accidental spill or release will not require any special equipment other than a shovel, broom, and plastic bag to contain any release material.

Due to the generated hazardous waste's characteristics, this facility's operation does not provide a significant potential for causing an environmental disruption or endangerment to public health or safety.

If there are any questions, or further information is required, do not hesitate to contact me at 863-4800, extenstion 409. Please acknowledge receipt of the enclosed plan.

Sincerely,

ERIK MIGLANS

Project Engineer

EM/kz encl.

cc: M. Babbitt

D. Kuzmenka

R. Morris

D. Rinner

T. Zaberdac

P. Zearfoss Jr.

File

No. T

## CONTINGENCY PLAN

ABC-NACO

National Castings-Cicero Works

Cicero, Illinois 60804

Issued: April, 2001 Revised: August 6, 2001



#### TABLE OF CONTENTS

- 1. INTRODUCTION
- 2. GENERAL CONDITIONS
- 3. WATER AND WASTE WATER
- 4. WASTE TREATMENT
- 5. EMERGENCY SITUATION RESPONSE PLANS
- 6. EMERGENCY COORDINATER/ALTERNATE AND SAFETY DIRECTOR IDENTIFICATION.
- 7. DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR OR ALTERNATE
- 8. SECURITY
- 9. INTERNAL/EXTERMAL COMMUNICATIONS
- 10. EMPLOYEE TRAINING PROGRAM DESCRIPTION
- 11. PLANT EMERGENCY EQUIPMENT
- 12. ARRANGEMENTS AGREED TO BY LOCAL EMERGENCY RESPONSE AGENCIES.



#### 1. INTRODUCTION:

ABC/NACO, National Castings, Cicero Works is located at 1400 S. Laramie Avenue, within the Corporate boundaries of the Town of Cicero.

Attachment No.1-Topographic Map –Berwyn Quadrangle Illinois, Cook County-locates the manufacturing facility and surrounding area.

Cicero Works is a steel foundry producing various castings for the Railroad manufacturing industries.

The manufacturing process consists of melting purchased steel scrap in electric Arc Furnaces and then pouring the molten metal into sand molds. The molds are produced in the foundry by various methods and consist of packing a prepared sand mixture into a flask that is placed over a pattern to created a void or a cavity in the flask. The molding sand is prepared by mixing recycled sand with given quantities of Bentonite clay and water.

Thoughout the manufacturing process, various waste products are generated and included the following: excess or waste sand from the molds; general baghouse dust from the many sand handling and mixing operations; baghouse dust created from the shot blast cleaning of castings; and the electric Arc Furnace fume and dust collection pollution emission control baghouse discharge dust

The Arc Furnace pollution emission control baghouse dust generated exceeds the Federal Environmental Protection Agency's Regulations with regard to maximum allowable concentrations for Cadmium and Lead. Consequently, Cicero Works is regarded as a hazardous waste generating facility.

A general purpose map is provided to locate the Arc Furnace dust collectors and Arc Furnace dust loading/unloading area. This plant layout is identified as Attachment No. 2.

The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust type of material that is: Non-explosive; Non-ignitable; non-reactive; and is non-infectious. Due to the generated hazardous waste's characteristics, this facility's operation does not provide a significant potentiao for causing an environmental disruption or endangerment to public health or safety.

#### 2. GENERAL CONDITIONS

Normal Cicero Works production operations are conducted five days per week with two eight hour shifts per day. Approximately four hundred, full-time salaried and hourly persons are employed at this facility. Cicero Works facilities included Office, Test Laboratories, Fabrication Shop and Production areas comprising 720,000 square feet under roof in the 32 acre plant site.

Page 2

#### 3. WATER AND WASTE WATER:



All plant water is supplied from the Public Water system of the Town of Cicero. Plant waste water is comprised of:

- 1) Sanitary Wastes
- 2) Clean process cooling water

The above sanitary wastes are generated from the lavatory and shower facilities; together with the process cooling water these wastes are discharged into the Metropolitan Sanitary Districts sewerage system. Neither of these types of wastes require plant treatment prior to discharge.

#### 4. WASTE TREATMENT:

No mechanical or chemical treatment systems are maintained or required at this facility.

## 5. EMERGENCY SITUATION RESPONSE PLANS:

Outlines and response plans have been established for emergency situations as follows:

### A) Sudden/Non-Sudden Release of Hazardous Waste

Due to the nature of the Arc Furnace pollution control dust generated, any release clean up would require a broom, shovel, and plastic bag to contain the released material.

If a release was in conjunction with and explosion or fire, emergency procedures would be implemented as required.

Local, County and State agencies would be notified as necessary through the Emergency Coordinator/alternate.

#### B) EXPLOSION

In the event of an explosion, the facility personnel will respond as follows: activate alarm and inform Emergency Coordinator of the situation; clear immediate area of all non-emergency personnel; remove victims to fresh air and keep them warm; call for required emergency assistance, assess damage; in the event of fire during or after explosion, proceed with established Cicero Works Fire Fighting procedures; notify appropriate local, County and State agencies, implement emergency procedures.

5.

### 6. EMERGENCY SITUATION RESPONSE PLANS-continued

#### C) Fire

In the event of fire, the facility personnel will take the following actions: activate alarm and inform Emergency Coordinator of the situation; clear immediate area of all personnel not involved in rescue and fire fighting activities; remove victims to fresh air and keep them warm; call for required emergency assistance; proceed with established Cicero Works fire fighting procedures; notify appropriate Local, County and State agencies; implement emergency procedures.

D) Evacuation

Cessary, various marked exits will be utilized to leave plant In the event evaproduction areas.

Iternate will notify the appropriate Local, County and State The emergency procedures. agencies and will impleme....

EMERGENCY COORDINATOR/ALTERNATE AND SAFETY DIRECTOR INDENTIFICATION 7.

To be notified in case of emergency situations:

**Emergency Coordinator:** 

Russ Bagnuolo

Plant Manager

Office Phone: (708) 863-4800 ext. 434

SAFETY DIRECTOR:

Dan Schneider

Safety Director

Office Phone: (708) 863-4800 ext. 418

NOTE: The Safety Director is to be notified at the same time as the Coordinate, or Alternate during emergency situations.

Alternates: Bob Thielmann

Maintenance Manager

Office Phone (708) 863-4800 ext. 213

Norman Schoon

Maintenance General Foreman

Office Phone: (708) 863-4800 ext. 209



#### 7. DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE

At all times, there will be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period to time), with the responsibility for coordination all emergency response measures. This Coordinator /Alternate is thoroughly familiar with; all aspects of the facility: contigengency plan; all operations and activities at the facility; the location and characteristics of waste handled; the location of all records within the facility layout. In addition, this person has the authority to commit the resources needed to carry out the contingency plan for this facility.

The Emergency Coordinator/Alternate will be expected to accomplish the following:

- A) When there is an imminent or actual emergency situation he will:
  - Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel of an emergency.
  - 2) Notify appropriate Local, State, or Federal agencies designated for response roles-if assistance is required.
- B) Whenever there is a release, fire or explosion, immeditely identify the character, source, amount and area extent of any released materials.
- C) Will assess possible hazards to human health or the environment that may result from the Release, fire or explosion, including the effects of any gases generated or resulting surface water run-offs due to fire control measures.
- D) If the Emergency Coordinator/Alternate determines that the facility has had a release, fire or explosion which would threaten human health, or the environment, outside the facility he will report his findings as follows:
  - 1) If the assessment indicates that evacuation of Local areas my be advisable, Appropriate Local authorities will notified (see Attachment 111-Emergency Situation Agency Telephone Numbers)
  - 2) The Coordinator/Alternate will immediately notify either the Government Official Designated as the On-Scene Coordinator for the Geographical area, or the National Response Center (using their 24 hour toll free number).



#### DUTIES & RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE-continued

#### D) Continued

This report is to include:

- a) Name and telephone number of reporter.
- b) Name and address of facility involved.
- c) Time of incident occurrence and type of incident (release, fire or explosion).
- d) Name and quantity of hazardous materials involved.
- e) The extent of injuries, if any.
- f) The possible hazards to human health, or the environment, outside the facility.
- E) Will take all reasonable measures necessary to ensure that fires, explosions, and Releases do not occur, recur, or spread to other facility areas. Theses measures will include stopping processes and operations as required.
- F) Immediately after an emergency will provide for treating, storing, or disposing of recovered waste, contaminated soil, or surface water, or any other resulting material from release, fire, or explosion.
- G) Will ensure that the affected areas of the facility are cleaned up and all emergency equipment utilized during the emergency situation is cleaned and fit to use prior to resuming facility operations.
- H) He will notify the Regional Administrator and the appropriate State and Local Authorities that facility has returned all emergency equipment back into usable condition prior to resuming facility operations.
- Will note in the operating record the time, date and details of any incident that requires implementing the contingency plan. Within fifteen days after the incident, he will submit a written report on the incident to the Regional Administrator. The report will include: Name, Address, and Telephone Number of the Owner or Operator; Name, Address, and Telephone Number of the Facility; Date, Time, and Type of Incident; Name and Quantity of Hazardous Waste Involved; The extent of injuries, if any; An Assessment of Actual or Potential Hazards to humal health or the Environment; Estimate the Quantity and Disposition of any Recovered Material resulting from the incident.



#### PAGE 6

#### 8. SECURITY

Plant security is maintained by full-time, round-the-clock Security Service Personnel. Two Watchmen are on duty at all times; one of which patrols the plant twice a shift during the second and third shifts. There are 33 guard security clock key stations throughout the plant. The entire facility is surrounded by an eight foot high chain link fence topped by three strands of barbed wire-where buildings do not provide a boundry. All gates are closed and secure when not in use to prevent unauthorized entrance/exit from the facility. All vehicular traffic must enter and exit through gates that are manned by a watchman. The driver is logged in/out and his business is recorded.

Warning Signs Reading: Notice: No Trespassing are posted at every plant gate and along the facility's perimeter.

#### 9. INTERNAL/EXTERNAL COMMUNICATIONS:

#### A) Internal Communications:

Several methods of internal communications are available for routine as well as Emergency use: Air whistle signal stations are located at departmental strategic points to summon Maint. Personnel; "In-Plant" telephones are located throuthout the plant and are interlock with a "Beeper" paging sysem-Key Personnel carry these radio devices; Two pair of hand-held, two-way radios are utilized by designated Maint. Supervisors.

#### B) External Communications:

Outside the plant communication is accomplished primarily through the Telephone System.

#### 10. EMPLOYEE TRAINING PROGRAM DESCRIPTION:

A new employee is initially assigned to work with an experienced employee for the first two Weeks. The employee us initially instructed with regard to his job responsibilities and Procedures by his Supervisor. The Supervisor follows the employee's activities closely during this period and determines whether additional time assigned with an experience employee is required. After this initial "Break-In" period the employee is given assignments to work independently while receiving additional on-the-job training and instruction from this Supervisor. The previous procedure also applys to older seniority re-assigned employees. The new employee's work is closely monitored for at least ninety days during the normal Employment probationary period.



#### PAGE 7

#### 10. EMPLOYEE TRAINING PROGRAM DESCRIPTION-continued

The handling of electric Arc Furnace pollution emission control baghouse dust generated by the Steel Melting Department is the responsibility of a Dust Collector Laborer who has been trained and instructed in the proper handling procedures of this hazardous waste material.

Included in the Dust Laborer's responsibilities will be the following:

- 1) All Dust Collector Baghouse discharge chute loctions are to have provisions to capture the dust in enclosed plastic bags.
- 2) Full bags are to be sealed and transported to the temporary storage hazardous waste Loading/removal site located adjacent to the outer wall of the Melt Department. These bags are to be loaded into a plastic lined twenty cubic yard roll-off disposal container which is then removed from the premises by a Licensed transporter to a Licensed Landfill for disposal in an appropriate manner.
- 3) Any spillage or discharge of Arc Furnace dust is to be immediately cleaned up and placed In plastic bags which are then to be transported to and deposited into the plastic lined rolloff Box for disposal.

The Plant Safety Department is responsible for maintaining files of appropriate employee training accomplished in conjunction with the employee's Supervisor.

#### 11. PLANT EMERGENCY EQUIPMENT

- A) Dust Respirators:
  - 1) Dust/Mist: 8510, 8515 manufactured by 3M Company.
  - 2) Dust/mist: 7000 Series-5000 Series-6000 Series Full Face Mask Type with Duel Canister manufactured by 3M Company.
- B) Portable oxygen Monitor:

Model OX-80, Serial #801786, is a personal oxygen monitor and indicator designed to detect conditions of oxygen deficiency and indicate the concentration at any time. It will sound an alarm at a present level of oxygen deficiency, Typically 19.5% the OSHA limit. This unit is utilized at the Safety Office.

#### 11. PLANT EMERGENCY EQUIPMENT-continued

#### C) Fire Extinguishers:

Fire Extinguishers are located throughout the Cicero Works facility (shown on Attachment 11). During the last annual inventory there were one hundred, thirty nine, at the facility. The Fire Extinguishers are rated for class A, B, or C type fires and are manufactured by Ansul.

The Extinguishers are re-charged-on a will call basis.

During the annual inspection fire-fighting equipment-extinguishers, sprinkler systems, fire water pumps and fire alarm/annunciator system are inspected for operating condition.

D) Stretchers and Eye Wash Stations:

This equipment is located throughout the facility as shown on Attachment 2.

E) Sprinkler/Fire Pump System: Office buildings and all major production facilities are protected by an overhead water sprinkler system.

#### 12. ARRANGEMENTS AGREED TO BY LOCAL EMERGENCY RESPONSE AGENCIES.

Due to the nature of the hazardous waste material on the facility site, prior agreements are not appropriate for this installation. However, any emergency situation wil be handled on an individual basis by the appropriate agency.



## EMERGENCY SITUATION-AGENCY TELEPHONE NUMBERS

SITUATION	APPROPRIATE AGENCY TO BE NOTIFIED	TELEPHONE #
Imminent or Actual Emergency:	<ol> <li>Town of Cicero Fire Department</li> <li>Town of Cicero Police Department</li> <li>Illinois E.P.A. Emergency Response</li> <li>Plant Security Personnel</li> </ol>	(708) 652-2121 (708) 652-2126 (217) 782-3636 Ext. 200
2. Release, Fire or Explosion:	<ol> <li>Town of Cicero Fire Department</li> <li>Town of Cicero Police Department</li> <li>Illinois E.P.A. Emergency Response</li> <li>Plant Security Personnel</li> <li>Federal E.P.A. Emergency Response</li> <li>Cicero Health Department</li> <li>Cicero Water Department</li> <li>First Aid Plant Dispensary</li> <li>Metropolitan Sanitary Dist. Of Chicago</li> <li>Cook County Sheriff-Police Dept.</li> <li>Mcneal Hospital</li> </ol>	(708) 652-2121 (708) 652-2126 (217) 782-3636 Ext 200 (800)424-8802 (708) 656-3600 (708) 656-4010 Ext. 419 (708) 787-3575 (708) 458-1000 (708) 795-9100
3. Evacuation:	<ol> <li>Town of Cicero Fire Department</li> <li>Town of Cicero Police Department</li> <li>Illinois E.P.A. Emergency Response</li> <li>Plant Security Personnel</li> <li>Cook County Sheriff-Police Dept.</li> </ol>	(708) 652-2121 (708) 652-2126 (217) 782-3636 Ext. 200 (708) 458-1000
Prior to Resumption of Plant Operations in the	Regional Administrator Chief, Waste     Management Branch	(312) 886-6148
Affected Areas	<ul><li>2) Illinois E.P.A. Emergency Response</li><li>3) Town of Cicero Fire Department</li><li>4) Town of Cicero Police Dept.</li><li>5) Plant Security Personnel</li></ul>	(217) 782-3636 (708) 652-2121 (708) 652-2126 Ext. 200



## HAZARDOUS WASTE GENERATING FACILITY

## WASTE ANALYSIS PLAN

NATIONAL CASTINGS-CICERO WORKS

APRIL, 2001



### **TABLE OF CONTENTS**

- 1. INTRODUCTION
- 2. WASTE SAMPLING METHODS
- 3. WASTE ANALYSIS REQUIREMENTS
- 4. WASTE ANALYSIS TECHNIQUES
- 5. SAMPLING/ANAYSIS FREQUENCY



#### 1. INTRODUCTION

Cicero Works, National Castings Division –ABC/NACO is a steel casting producing foundry. Scrap steel is melted and refined in electirc Arc Furnaces from which molten metal is poured into sand molds to form steel castings.

The castings produced vary in weight from 50 lbs to 4,800 lbs. And are supplied to The Railroad manufacturing industries.

The electric Arc Furnace pollution emission control baghouses collect dust which exceeds the Federal E.P.A. regulations with regard to allowable maximum concertrations from Cadmium and Lead.

## 2. WASTE SAMPLING METHODS:

The waste samples taken at Cicero Works were accomplished in accordance with E.P.A. Guidelines and included the use of the following equipment: Trier; Auger;Scoop; Sterlized Sample Containers; and Sample Labels.

All samples were labeled and traced according to E.P.A. Regulations. This included the use of a Sample Seal; Field Log Sheet; and Chain of Custody Sheet for each sample.

## 3. WASTE ANALYSIS REQUIREMENTS:

The samples were analyzed with regard to compliance with the following Federal and State E.P.A. Agency Standards:

- 1) Federal E.P.A.: Toxicity Standards for metals (261.24, Table/Extraction Procedure); PH; Flashpoint; Reactive Cyanide/Sulfide; Free Liquid (paint filter test).
- 2) Illinois E.P.A.; Total Sulfide/Cyanide; Total Solids; and Alkalinity/Acidity.

#### 4. WASTE ANALYSIS TECHNIQUES:

Lab analysis techniques were in complete accordance with procedures outlined in the E.P.A. book; <u>Test Methods For Evaluating Solid Waste; Physical/Chemical Methods (SW-846).</u>



## SAMPLING/ANALYSIS FREQUENCY:

Plant operating procedures have not been substantially altered and steel castings production component materials have not been substituted since the implementation of the R.C.R.A. hazardous waste generator-treatment, storage, or disposal facility requirements.

Therefore, the sampling of waste and analysis of the electric Arc Furnace pollution control baghouse dust is accomplished as mandated by the Renewal Requirements of the E.P.A. hazardous waste permit application every three years.



## **HAZARDOUS WASTE GENERATING FACILITY**

## **INSPECTION PLAN**

NATIONAL CASTINGS – CICERO WORKS

CICERO, ILLINOIS 60804

APRIL, 2001



## TABLE OF CONTENTS

- 1. INTRODUCTION
- 2. HAZARDOUS WASTE INSPECTIONS,
- 3. INSPECTION RECORD



#### 1. INTRODUCTION:

National Castings, Cicero Works has two Arc Furnace fume and dust pollution emission control baghouses which generate hazardous waste dust.

All malfunctions, deterioration, and breakdowns of hazardous waste removal equipment is documented in the "Inspection Record of: Arc Furnace Dust Removal Equipment and Temporary Storage/Removal Site" forms. Routine maintenance work, as well as the major repairs necessary to correct equipment failures, will be logged in the inspection record.

In addition to the equipment inspections, the area used to store hazardous wastes prior to removal, will undergo inspection at specified intervals to detect leaks, spills or discharges. These inspections and the actions required to correct any release of hazardous waste materials will be documented in the above mentioned :Inspection Record".

## 1. HAZARDOUS WASTE INSPECTIONS:

A) Hazardous waste temporary area:

A designated area located adjacent to the outer wall of the Melt Department has been set aside for hazardous waste loading/removal. A sign reading: "Unauthorized Personnel Keep Out- Hazardous Waste Storage Area", and is mounted at this location.

The hazardous waste temporary storage area is inspected at least weekly for leaks and spills, and for deterioration of the plastic lined twenty cubic yard roll-off disposal container.

#### B) Areas subject to spills:

The loading/removal hazardous waste material area and the Arc Furnance pollution control baghouse areas, are inspected daily for spillage and proper equipment operation.

#### 2. INSPECTION RECORD:

The "Inspection Record of Arc Furnace Dust Removal Equipment and Temporary Storage/Removal Site" will included the following: Date of Inspection; Name of Inspector; Notation of Observations Made; and possible Maintenance Repair Required.

Periodic inspection information of equipment and temporary storage/removal site will be maintained at the facility for a period of three years from the date of the inspection.

# ATTACHMENT I

# BERWYN QUADRANGLE ILLINOIS-COOK CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)

87°45′ 436 30" R 131. 435 650 000 FEET 41°52'3 VAN BUREN Plato Sch W HARRISON. HARRISON PARK EXPRESSWAY Park i Playeround HARVARD B Christ Sch Clark Sch Irving Sch McKinley Sch Timothy Schall St Francis Sch Havlicek 21 Lincoln 4634 Playground Sch Burnham Sch 1890000 FEET TRANSIT ž Sherlock Sch ... 230 Wilson Odilo [ ] Mary Queen Scl Our Lady PO\* 606 Morton Playground Komensky Sch 28 s Sch 27TH 28TH Janura



MacNeal Hospital 3249 South Oak Park Avenue Berwyn, III. 60402

To Whom It May Concern:

Enclosed please find a copy of the Contingency Plan Prepared by National Castings-Cicero Works, which is submitted in accordance with the Environmental Protection Agency (EPA) regulations under the Resource Conservation and Recovery Act (RCRA).

Our facility has three electric Arc Furnaces that requires two fume and dust pollution emission control baghouse. The dust generated from these baghouses exceeds the Federal Environmental Protection Agency's regulations with regard to maximum allowable concentrations for Cadmuim and Lead. Consequently, Cicero Works is regarded as hazardous waste generating facility.

The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust type of material that is: Non-explosive; Non-ignitable, Non-reactive, and is Non-infectious. The clean up of an accidental spill or release will not require any special equipment other than a shovel, broom, and plastic bag to contain any release material.

Due to the grenerated hazardous waste's characteristics, this facility's operation does not provide a significant potential for causing an environmental disruption or endangerment to public health or safety.

If there are any questions, or further information is required, do not hesitate to contact me at (708) 863-4800, on ext. 458. Please acknowledge receipt of the enclosed plan.

Sincerely,

John Hall Enviromental Manager



Town of Cicero Fire Dept. Headquarters % Fire Marshall: Mr. 5303 W. 25<sup>th</sup> Place Cicero, IL. 60804

To Whom It May Concern:

Enclosed please find a copy of the Contingency Plan prepared by National Casting-Cicero Works, which is submitted in accordance with the Environmental Protection Agency (EPA) Regulations under the Resources Conservation and Recovery Act (RCRA).

Our facility has Three electric Arc Furnaces that requires two fume and dust pollution Emission control baghouses. The dust generated from these Baghouses exceeds the Federal Environmental Protection Agency's regulations with regard to maximum allowable Concentrations for Cadmuim and Lead. Consequently, Cicero Works is regarded as A hazardous waste generating facility.

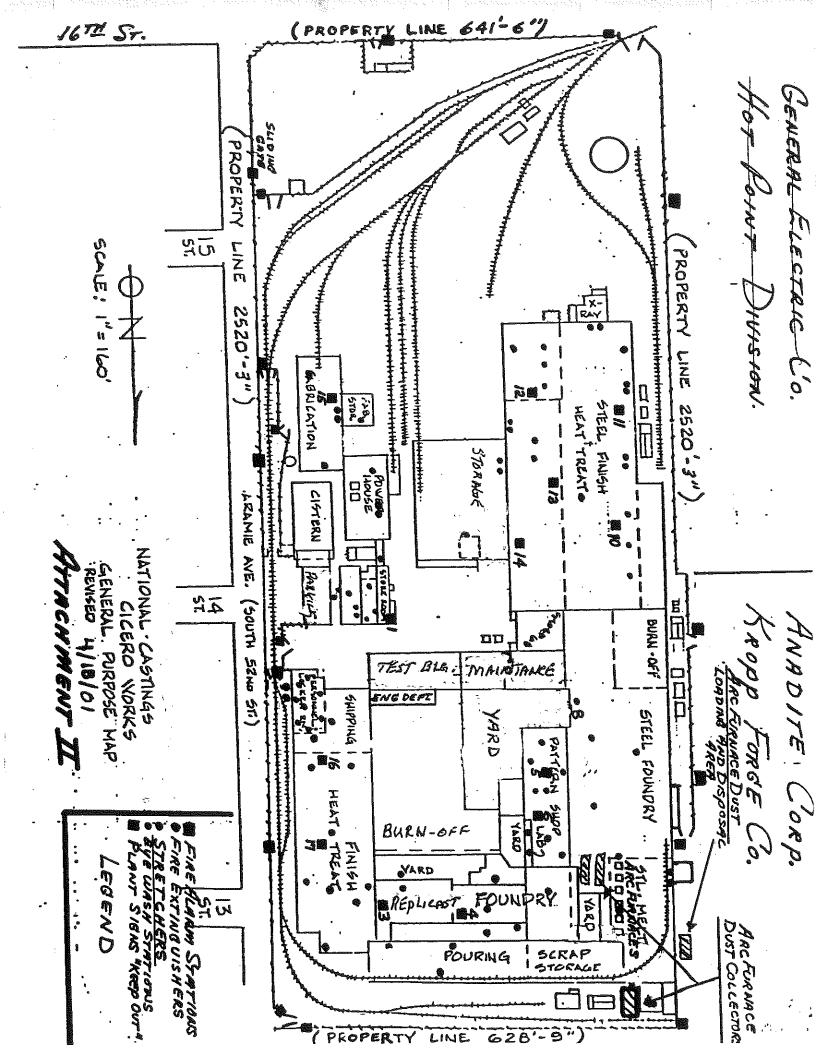
The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust Type material that is: Non-explosive: Non-ignitable: Non-reactive; and is Non-infectious. The Clean up of an accidental spill or release will not require any special equipment other than a shovel, broom, and plastic bag to contain any release material.

Due the generated hazardous waste's characteristics, this facility's operation does not provide A significant potention for causing an environmental disruption or endangerment to public Health safety.

If there are any questions, or further information required, do not hesitate to contact me at (708) 863-4800, ext. 458. Please acknowledge receipt of the enclosed plan.

Sincerely

John Hall



## CONTINGENCY PLAN

NATIONAL CASTINGS

- CICERO WORKS

CICERO, ILLINOIS 60650

ISSUED March, 1985

#### TABLE OF CONTENTS

- INTRODUCTION
- II. GENERAL CONDITIONS
- III. WATER AND WASTE WATER
- IV. WASTE TREATMENT
  - V. EMERGENCY SITUATION RESPONSE PLANS
- VI. EMERGENCY COORDINATER/ALTERNATE AND SAFETY DIRECTOR IDENTIFICATION
- VII. DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR OR ALTERNATE
- VIII. SECURITY
  - IX. INTERNAL/EXTERNAL COMMUNICATIONS
  - X. EMPLOYEE TRAINING PROGRAM DESCRIPTION
  - XI. PLANT EMERGENCY EQUIPMENT
  - XII. ARRANGEMENTS AGREED TO BY LOCAL EMERGENCY RESPONSE AGENCIES

#### I. INTRODUCTION:

Midland-Ross Corporation, National Castings Division, Cicero Works is located at 1400 S. Laramie Avenue, within the Corporate boundaries of the Town of Cicero.

Attachment No. I - Topographic Map - Berwyn Quadrangle Illinois, Cook County - locates the manufacturing facility and surrounding area.

Cicero Works is a steel foundry producing various castings for the Automotive, Farm Equipment, Construction, Lift Truck, Ordnance, Mining and Railroad manufacturing industries.

The manufacturing process consists of melting purchased steel scrap in electric Arc Furnaces and then pouring the molten metal into sand molds. The molds are produced in the foundry by various methods and consist of packing a prepared sand mixture into a flask that is placed over a pattern to create a void or a cavity in the flask. The molding sand is prepared by mixing recycled sand with given quantities of Bentonite clay and water.

Throughout the manufacturing process, various waste products are generated and include the following: excess or waste sand from the molds; general baghouse dust from the many sand handling and mixing operations; baghouse dust created from the shot blast cleaning of castings; and the electric Arc Furnace fume and dust collection pollution emission control baghouse discharge dust.

The Arc Furnace pollution emission control baghouse dust generated exceeds the Federal Enviornmental Protection Agency's Regulations with regard to maximum allowable concentrations for Cadmium and Lead. Consequently, Cicero Works is regarded as a hazardous waste generating facility.

A general purpose map is provided to locate the Arc Furnace dust collectors and Arc Furnace dust loading/unloading area. This plant layout is identified as Attachment No. II.

The electric Arc Furnace pollution emission control baghouse waste generated is a dry dust type of material that is: Non-explosive; Non-ignitable; non-reactive; and is non-infectious. Due to the generated hazardous waste's characteristics, this facility's operation does not provide a significant potential for causing an environmental disruption or endangerment to public health or safety.

#### II. GENERAL CONDITIONS:

Normal Cicero Works production operations are conducted five days per week with two eight hour shifts per day. Approximately six hundred, sixty four full-time salaried and hourly persons are employed at this facility. Cicero Works facilities include Offices, Test Laboratories, Fabrication Shop and Production areas comprising 720,000 square feet under roof in the 32 acre plant site.

#### III. WATER AND WASTE WATER:

All plant water is supplied from the Public Water system of the Town of Cicero. Plant waste water is comprised of:

- 1) Sanitary Wastes
- 2) Clean process cooling water

The above sanitary wastes are generated from the lavatory and shower facilities; together with the process cooling water these wastes are discharged into the Metropolitan Sanitary Districts sewerage system. Neither of these types of wastes require plant treatment prior to discharge.

#### IV. WASTE TREATMENT:

No mechanical or chemical treatment systems are maintained or required at this facility.

#### V. EMERGENCY SITUATION RESPONSE PLANS:

Outlines and response plans have been established for emergency situations as follows:

## A) Sudden/Non-Sudden Release of Hazardous Waste

Due to the nature of the Arc Furnace pollution control dust generated, any release clean up would require a broom, shovel, and plastic bag to contain the released material.

If a release was in conjunction with an explosion or fire, emergency procedures would be implemented as required.

Local, County and State agencies would be notified as necessary through the Emergency Coordinator/alternate.

#### B) Explosion

In the event of an explosion, the facility personnel will respond as follows: activate alarm and inform Emergency Coordinator of the situation; clear immediate area of all non-emergency personnel; remove victims to fresh air and keep them warm; call for required emergency assistance; assess damage; in the event of fire during or after explosion, proceed with established Cicero Works Fire Fighting procedures; notify appropriate local, County and State agencies; implement emergency procedures.

Comprave to

#### V. EMERGENCY SITUATION RESPONSE PLANS - continued

## C) Fire

In the event of fire, the facility personnel will take the following action: activate alarm and inform Emergency Coordinator of the situation; clear immediate area of all personnel not involved in rescue and fire fighting activities; remove victims to fresh air and keep them warm; call for required emergency assistance; proceed with established Cicero Works fire fighting procedures; notify appropriate Local, County and State agencies; implement emergency procedures.

## D) Evacuation

In the event evacuation is necessary, various marked exits will be utilized to leave plant production areas.

s Bagnuolo condinación schneider

y Coordinator/alternate will notify the appropriate y and State agencies and will implement emergency

R/ALTERNATE AND SAFETY DIRECTOR IDENTIFICATION

se of emergency situations:

\_\_\_r:

Dan Kuzmenka 15362 Natalie Dr. Oak Forest, IL 60452 Office Phone: 863-48 Home Phone: 687-3562

SAFETY DIRECTOR:

Jerry Farmer 145 Rex Boulevard Elmhurst, IL 60126

Office Phone: 863-4800, Ext. 418

Home Phone: 834-6752

Note: The Safety Director is to be notified at the same time as the Coordinator or Alternate during emergency situations.

Alternates:

Paul Zearfoss Jr. 5118 Main Street Lisle, IL 60532

Office Phone: 863-4800 ext. 304

Home Phone: 810-0406

Bob Thelmonn Marc Marshall

Roger Miller 2218 N. Kelly Plainfield, IL 60544

Office Phone: 863-4800, Ext. 271 Home Phone: 1-815-436-2130



## VII. DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE

At all times, there will be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time), with the responsibility for coordinating all emergency response measures. This Coordinator/Alternate is thoroughly familiar with: all aspects of the facility's contingency plan; all operations and activities at the facility; the location and characteristics of waste handled; the location of all records within the facility; and the facility layout. In addition, this person has the authority to commit the resources needed to carry out the contingency plan for this facility.

The Emergency Coordinator/Alternate will be expected to accomplish the following:

- A) Whenever there is an imminent or actual emergency situation he will:
  - 1) Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel of an emergency.
  - Notify appropriate Local, State or Federal agencies designated for response roles - if assistance is required.
- B) Whenever there is a release, fire or explosion, immediately identify the character, source, amount and area extent of any released material.
- C) Will assess possible hazards to human health or the environment that may result from the release, fire or explosion; including the effects of any gases generated or resulting surface water run-offs due to fire control measures.
- D) If the Emergency Coordinator/Alternate determines that the facility has had a release, fire or explosion which would threaten human health, or the environment, outside the facility, he will report his findings as follows:
  - If the assessment indicates that evacuation of Local areas may be advisable, appropriate Local authorities will be notified (see Attachment III - Emergency Situation Agency Telephone Numbers).
  - 2) The Coordinator/Alternate will immediately notify either the Government Official designated as the On-Scene Coordinator for the Geographical area, or the National Response Center (using their 24 hour toll free number).

## VII. DUTIES & RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE - continued

#### D) Continued

This report is to include:

- a) Name and telephone number of reporter.
- b) Name and address of facility involved.
- c) Time of incident occurrence and type of incident (release, fire or explosion).
- d) Name and quantity of hazardous materials involved.
- e) The extent of injuries, if any.
- f) The possible hazards to human health, or the environment, outside the facility.
- E) Will take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other facility areas. These measures will include stopping processes and operations as required.
- F) Immediately after an emergency will provide for treating, storing, or disposing of recovered waste, contaminated soil, or surface water, or any other resulting material from release, fire, or explosion.
- G) Will ensure that the affected areas of the facility are cleaned up and all emergency equipment utilized during the emergency situation is cleaned and fit to use prior to resuming facility operations.
- H) He will notify the Regional Administrator and the appropriate State and Local Authorities that the facility has returned all emergency equipment back into usable condition prior to resuming facility operations.
- I) Will note in the operating record the time, date and details of any incident that requires implementing the contingency plan. Within fifteen days after the incident, he will submit a written report on the incident to the Regional Administrator. The report will include: Name, Address, and Telephone Number of the Owner or Operator; Name, Address, and Telephone Number of the Facility; Date, Time, and Type of Incident; Name and Quantity of Hazardous Waste Involved; The extent of injuries, if any; An Assessment of Actual or Potential Hazards to humal health or the Environment; Estimate the Quantity and Disposition of any Recovered Material resulting from the incident.

#### VIII. SECURITY

Plant security is maintained by full-time, round-the-clock John R. Davis Security Service Personnel. Two Watchmen are on duty at all times; one of which patrols the plant twice a shift during the second and third shifts. There are 33 guard security clock key stations throughout the plant. The entire facility is surrounded by an eight foot high chain link fence topped by three strands of barbed wire-where buildings do not provide a boundary. All gates are closed and secure when not in use to prevent unauthorized entrance/exit from the facility. All vehicular traffic must enter and exit through gates that are manned by a watchman. The driver is logged in/out and his business is recorded.

Warning Signs Reading: "Danger, Unauthorized Personnel Keep Out" are posted at every plant gate and along the facility's perimeter.

#### IX. INTERNAL/EXTERNAL COMMUNICATIONS

#### A) Internal Communications:

Several methods of internal communications are avaailable for routine as well as emergency use: Air whistle signal stations are located at departmental strategic points to summon Maint. Personnel; "In-Plant" telephones are located throughout the plant and are interlocked with a "Beeper" paging system - Key Personnel carry these radio devices; Two pair of hand-held, two-way radios are utilized by designated Maint. Supervisors.

#### B) External Communications:

Outside the plant communication is accomplished primarily through the Illinois Bell Telephone System.

#### X. EMPLOYEE TRAINING PROGRAM DESCRIPTION:

A new employee is initially assigned to work with an experienced employee for the first two weeks. The employee is initially instructed with regard to his job responsibilities and procedures by his Supervisor. The Supervisor follows the employee's activities closely during this period and determines whether additional time assigned with an experienced employee is required. After this initial "Break-In" period the employee is given assignments to work independently while receiving additional on-the-job training and instruction from his Supervisor. The previous procedure also applys to older seniority re-assigned employees. The new employee's work is closely monitored for at least ninety days during the normal employment probationary period.

#### X. EMPLOYEE TRAINING PROGRAM DESCRIPTION - continued

The handling of electric Arc Furnace pollution emission control baghouse dust generated by the Steel Melting Department is the responsibility of a Dust Collector Laborer who has been trained and instructed in the proper handling procedures of this hazardous waste material.

Included in the Dust Collector Laborer's responsibilities will be the following:

- 1) All Dust Collector Baghouse discharge chute locations are to have provisions to capture the dust in enclosed plastic bags.
- 2) Full bags to be transported to the temporary storage hazardous waste loading/removal site located adjacent to the outer wall of the Melt Department. These bags are to be loaded into a plastic lined twenty cubic yard roll-off disposal container which is then removed from the premises by a Licensed transporter to a Licensed Landfill for disposal in an appropriate manner.
- 3) Any spillage or discharge of Arc Furnace dust is to be immediately cleaned up and placed in plastic bags which are then to be transported to and deposited into the plastic lined roll-off box for disposal.

The Plant Safety Department is responsible for maintaining files of appropriate employee training accomplished in conjunction with the employee's Supervisor.

#### XI. PLANT EMERGENCY EQUIPMENT

- A) Dust Respirators:
  - 1) Dust/Mist: #08710; #9910; #9920 manufactured by 3M Company.
  - 2) Dust/Mist: #7600-8 Full Face Mask Type with Dual Canister manufactured by Norton Co.
- B) Portable Oxygen Monitor:

Model OX-80, Serial #801786, is a personal oxygen monitor and indicator designed to detect conditions of oxygen deficiency and indicate the concentration at any time. It will sound an alarm at a present level of oxygen deficiency, Typically 19.5% the OSHA limit. This unit is utilized at the A.O.D. Molten Steel Purification Process location.

#### XI. PLANT EMERGENCY EQUIPMENT - continued

#### C) Fire Extinguishers:

Fire Extinguishers are located throughout the Cicero Works facility (shown on Attachment II). During the last annual inventory there were one hundred, thirty nine, at the facility. The Fire Extinguishers are rated for class A, B, or C type fires and are manufactured by Ansul.

The Extinguishers are re-charged - on a will call basis by Fredricksen & Sons Fire Equipment Co., Inc. of Bensenville, Illinois.

Annual facility fire and associated perils loss prevention inspection reports are prepared by Factory Mutual Engineering of Rolling Meadows, Illinois for Cicero Works Insurance Underwriter - Allendale Mutual Insurance Company of Beachwood Ohio.

During the annual inspection fire-fighting equipment - extinguishers, sprinkler systems, fire water pumps and fire alarm/annunciator system are inspected for operating condition.

D) Stretchers and Eye Wash Stations:

This equipment is located throughout the facility as shown on Attachment II.

E) Sprinkler/Fire Pump System:

Office buildings and all major production facilities are protected by an overhead water sprinkler system.

F) Fire Alarm/Annunciator System:

A new seventeen station fire alarm system with two annunciator locations, which are supervised round-the-clock, are being presently installed - to be in service by May 1, 1985.

#### XII. ARRANGEMENTS AGREED TO BY LOCAL EMERGENCY RESPONSE AGENCIES

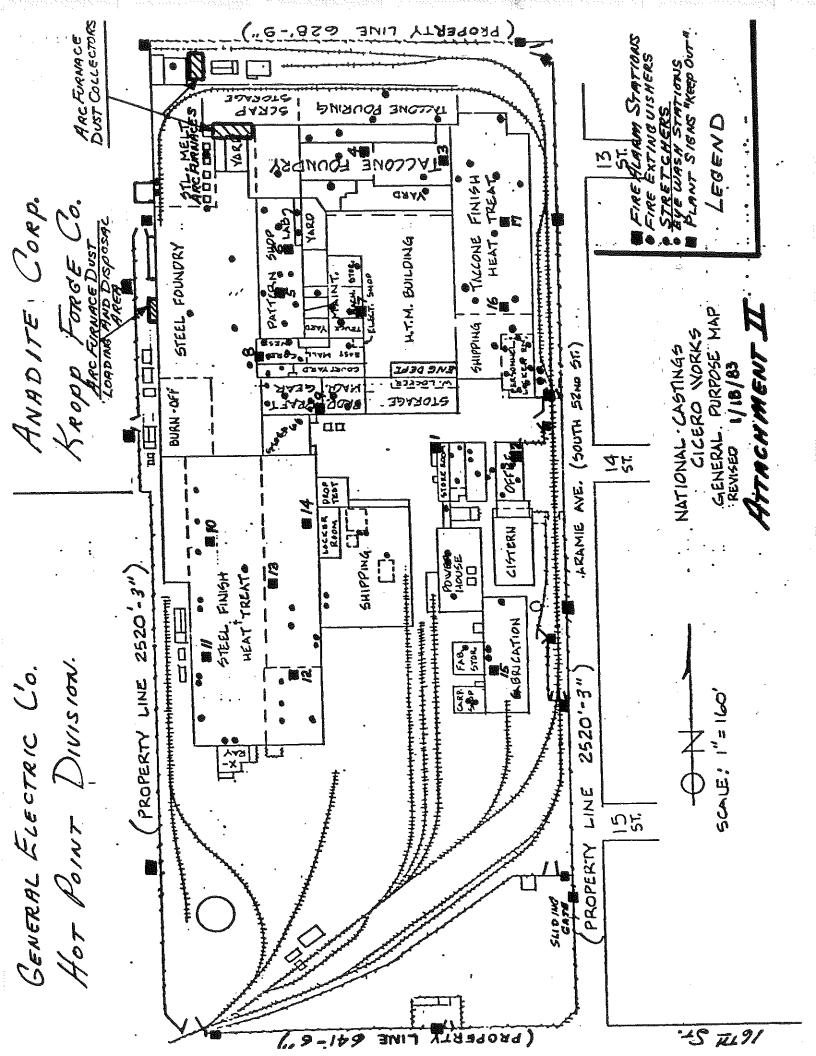
Due to the nature of the hazardous waste material on the facility site, prior agreements are not appropriate for this installation. However, any emergency situation will be handled on an individual basis by the appropriate agency.

# ATTACHMENT I

# BERWYN QUADRANGLE ILLINOIS-COOK CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)

87°45' 435 OFRBE. 650 000 FEET = 41°52'3( VAN BUREN Plato Sch W HARRISON. COLUMBUS PARK Relim Park Playground HARVARD Christ Sch Irving Sch ROOSEVELT McKinley Sch Timothy Schin /4TUS+ Burnham Sch Playground Sch 4634 1890000 FEET Rlayground TRANSIT Sherlock Sch s . Wilson Sch Our Lady Mary Queen Sch Morton

Jr College 606 Playground Komensky Sch Sch | Goodwin Playground 28TH Janura Hawthorne Par Park



## ATTACHMENT III

## National Castings 1400 South Laramie Avenue, Cicero, IL 60650 312/863-4800

# EMERGENCY SITUATION - AGENCY TELEPHONE NUMBERS

	SITUATION		APPROPRIATE AGENCY TO BE NOTIFIED	TELEPHONE NUME	3ER
*	Turning to Annual	11	There of Ciones Pine Department	659 9191	
I.	Imminent or Actual Emergency:		Town of Cicero Fire Department	652-2121	
		-	Town of Cicero Police Department	652-2126	
		•	Illinois E.P.A. Emergency Response	(217) 782-3636	
		4)	Plant Security Personnel	Extension 420	
				,	
II.	Release, Fire or 'Explosion:	1)	Town of Cicero Fire Department	652-2121	
		2)	Town of Cicero Police Department	652-2126	
		3)	Illinois E.P.A. Emergency Response	(217) 782-3636	
		4)	Plant Security Personnel	Extension 420	
		5)	Federal E.P.A. Emergency Response	(800) 424-8802	
		6)	Cicero Health Department	656-3600	
		7)	Cicero Water Department	656-4010	
		8)	First Aid - Plant Dispensary	Extension 419	
		9)	Central Industrial Clinic	242-2670	
		10)	Loretto Hospital	626-4300	n.
		11)	Metropolitan Sanitary Dist. of Chicago	787-3575	ŀ
		12)	Cook County Sheriff - Police Dept.	458-1000	f.
III.	Evacuation:	1)	Town of Cicero Fire Department	<b>6</b> 52 <b>-</b> 2121	
		2)	Town of Cicero-Police Department	652-2126	,
		3)	Illinois E.P.A. Emergency Response	(217) 782-3636	<b>)</b>
		4)	Plant Security Personnel	Extension 420	
		5)	Cook County Sheriff - Police Dept.	. 458–1000	<b>)</b>
IV.	Prior to Resumption Of Plant Operations		Regional Administrator Chief, Waste Management Branch	886-6148	}
	In The Affected Areas	2)	Illinois E.P.A. Emergency Response	(217) 782-3636	j
	. •	3)	Town of Cicero Fire Department	652-2121	L
		4)	Town of Cicero Police Department	652-2126	<b>;</b>
		5)	Plant Security Personnel	Extension 420	

## HAZARDOUS WASTE GENERATING FACILITY

## INSPECTION PLAN

NATIONAL CASTINGS

- CICERO WORKS

CICERO, ILLINOIS 60650

MARCH, 1985

## TABLE OF CONTENTS

- I. INTRODUCTION
- II. HAZARDOUS WASTE INSPECTIONS
- III. INSPECTION RECORD

#### I. INTRODUCTION:

Midland-Ross Corporation, National Castings Division, Cicero Works has two Arc Furnace fume and dust pollution emission control baghouses which generate hazardous waste dust.

All malfunctions, deterioration, and breakdowns of hazardous waste removal equipment is documented in the "Inspection Record Of: Arc Furnace Dust Removal Equipment and Temporary Storage/Removal Site" forms. Routine maintenance work, as well as the major repairs necessary to correct equipment failures, will be logged in the inspection record.

In addition to the equipment inspections, the area used to store hazardous wastes prior to removal, will undergo inspection at specified intervals to detect leaks, spills or discharges. These inspections and the actions required to correct any release of hazardous waste materials will be documented in the above mentioned "Inspection Record".

#### II. HAZARDOUS WASTE INSPECTIONS:

A) Hazardous waste temporary storage area:

A designated area located adjacent to the outer wall of the Melt Department has been set aside for hazardous waste loading/removal. A sign reading: "Danger, Unauthorized Personnel Keep Out - Hazardous Waste Storage Area", has been purchased and will be mounted at this location.

The hazardous waste temporary storage area is inspected at least weekly for leaks and spills, and for deterioration of the plastic lined twenty cubic yard roll-off disposal container.

B) Areas subject to spills:

The loading/removal hazardous waste material area and the Arc Furnace pollution control baghouse areas, are inspected daily for spillage and proper equipment operation.

#### III. INSPECTION RECORD:

The "Inspection Record Of: Arc Furnace Dust Removal Equipment and Temporary Storage/Removal Site" will include the following: Date of Inspection; Name of Inspector; Notation of Observations Made; and possible Maintenance Repair Required.

Periodic inspection information of equipment and temporary storage/removal site will be maintained at the facility for a period of three years from the date of the inspection.

## HAZARDOUS WASTE GENERATING FACILITY:

## WASTE ANALYSIS PLAN

NATIONAL CASTINGS - CICERO WORKS

MARCH, 1985

## TABLE OF CONTENTS

- I. INTRODUCTION
- II. WASTE SAMPLING METHODS
- III. WASTE ANALYSIS REQUIREMENTS
- IV. WASTE ANALYSIS TECHNIQUES
  - V. SAMPLING/ANALYSIS FREQUENCY

#### I. INTRODUCTION:

Cicero Works, National Castings Division - Midland Ross Corporation is a steel casting producing foundry. Scrap steel is melted and refined in electric Arc Furnaces from which molten metal is poured into sand molds to form steel castings.

The castings produced vary in weight from 50 lbs. to 4,800 lbs. and are supplied to the Automotive, Farm Equipment, Construction, Lift Truck, Ordnance, Mining and Railroad manufacturing industries.

The electric Arc Furnace pollution emission control baghouses collect dust which exceeds the Federal E.P.A. regulations with regard to allowable maximum concentrations from Cadmium and Lead.

#### II. WASTE SAMPLING METHODS:

The waste samples taken at Cicero Works were accomplished in accordance with E.P.A. Guidelines and included the use of the following equipment: Trier; Auger; Scoop; Sterilized Sample Containers; and Sample Labels.

All samples were labeled and traced according to E.P.A. Regulations. This included the use of a Sample Seal; Field Log Sheet; and Chain of Custody Sheet for each sample.

#### III. WASTE ANALYSIS REQUIREMENTS:

The samples were analyzed with regard to compliance with the following Federal and State E.P.A. Agency Standards:

- 1) Federal E.P.A.: Toxicity Standards for metals (261.24, Table/ Extraction Procedure); PH; Flashpoint; Reactive Cyanide/Sulfide; Free Liquid (paint filter test).
- 2) Illinois E.P.A.: Total Sulfide/Cyanide; Total Solids; and Alkalinity/Acidity.

#### IV. WASTE ANALYSIS TECHNIQUES:

Lab analysis techniques were in complete accordance with procedures outlined in the E.P.A. book; Test Methods For Evaluating Solid Waste; Physical/Chemical Methods (SW-846).

## V. SAMPLING/ANALYSIS FREQUENCY:

Plant operating procedures have not been substantially altered and steel casting production component materials have not been substituted since the implementation of the R.C.R.A. hazardous waste generator - treatment, storage, or disposal facility requirements.

Therefore, the sampling of waste and analysis of the electric Arc Furnace pollution control baghouse dust is accomplished as mandated by the Renewal Requirements of the E.P.A. hazardous waste permit application every three years.

r

U.S. DEPARTMENT OF LAHOR Occupational Safety and Health Administration

Form Date:

Aug. 86

Required under USDL Salety and Health Regulations for Ship Repairing.

Shipbuilding, an	5, 1916, 1917)	*************				
		SECTIO	I NC	and the first statement of the statement	<del></del>	
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.				
ADM Milling Co. / Krause Mil	ling	Co.		913-491-9400		
ADDRESS (Number, Sucet, City, Steer, and ZIF Cod 4550 West 109th Street - S	suit	e 100 -	Shawnee M	ission, Kansas 66211	······································	
CHEMICAL NAME AND SYNONYMS Pregelatinized Corn Flour			YRA	de name and synonyms Amerikor		
CHEMICAL FAMILY	N/A					
					-	
SECTION	11 +		DOUS INGR	EDIENTS - Not Applicat	Te	TLV
PAINTS, PRESERVATIVES, & SOLVENTS	*	TLV (Units)	ALLOYS	AND METALLIC COATINGS	×	(Unie)
PIGMENTS	2° 1 - 1 (24)		BASE METAL			
CATALYST	<u> </u>		ALLOYS			
VEHICLE			METALLIC CO	ATINGS		
SOLVENTS			FILLER META	L E OR CORE FLUX		
ADDITIVES			OTHERS			
OTHERS				,		
PRUTXIM SUCGRASAH	s of	OTHER LIQ	UIDS, SOLIDS.	or gases	×	(rwiz)
,						
				•		
			aya aya aya aya aya aya aya aya aya aya			
	- Carrier Section 1					
. SEC	TIC	N III - P	HYSICAL D	ATA		
BOILING POINT (FF.)		N/A	SPECIFIC GR	VITY (1430=1)		N/A
VAPOR PRESSURE (mm He.)		N/A	PERCENT, VO	LATILE X)		N/A
VAPOR DENSITY (AIR-1)		N/A	EVAPORATIO	N RATE		N/A
SOLUSILITY IN WATER		N/A	Specific	wt. 500 - 550 gms/ dry	<u>  qu</u>	art
APPEARANCE AND ODOR Light ye	=11c	w in co.	lor.		·····	
and a second of the second of	e= 1 i	ጉሮ ልአነሮነ (	EVDI OCION	HAZARD DATA		
FLASH POINT (Melinod used)	BLE LIMITS Let		U+1			
NA	N/A					
Water, dry chemical, or carbon dioxi				e extinguisher.		
SPECIAL FIRE FIGHTING PROCEDURES Phys	<u>ica</u>	<u>remova</u>	l of smoul	ering material.	,	
	<del></del>			e avalocive (minimum p	<u>vn1/</u>	neinn
UNUSUAL FIRE AND EXPLOSION MAZAROS CONC04 OZ. CU ft; ignition	uus tei	TD 400°C	pa Britear Poteutiari	of Mines): difficult	£6	J J & W 1 6
ignite, slow burning.					ı	mary on military and a summinder of the

MAR-07-			ROM ADI						1U		(62 744	عود ر	ري. ¬
SHOLD LIMIT	YALUE	cess or 5	mg/m <sup>3</sup>	res	pirab]	le d	ust as	กบเรล	ahc	e partic	ulate.	and the annual statement	***************************************
TE OF OVERE TEQUEED V	EXPOSU ISIDI.	RE Lity, unpl	easant	dep	osits	in (	eyes,	ears,	ho !	se as nu	<u>isance p</u>	<u>partic</u>	ulate
NCY AND P	rinst A	io PROCEDUI	elv dus	ty_c	ondit	ions	are e	ncoun	ter	ed, as i	n any f	ine	
owder con	ditio	n. wear fa	ace mas	k.					-		Description of the second		
		and the second second	·						_	and the same of th		4	
		and the same of th	SECTIO	NVI	. p⊆	ACT	IVITY	DATA	1	<u></u>			
ILITY	1	ASLE	conditions particul			s TO	avaia J	The	Ç	rmation The fo	of a numerion	isance of an	
1 tun 4 4 1	STAB	<u> </u>	J	exp	losib	le d	ust c	oud a	ηþ	a simul	taneous	igniti	.on
MPATABILITY			X	SOU	rce.				Ť				
ROOUS DECC			None	N/A				<u> </u>		_	C. C. C. C. C. C. C. C. C. C. C. C. C. C	<u> Бууруулган аламын дөг бөгүү</u>	*
AKUUUS BEUL		·				103	IDITION	S YO AV	/a c	N/A	( <u> </u>	<u> </u>	
ARDOUS MERIZATION		MAY OCCUI		_	X			4	╅	·	<u> </u>	*	<u> </u>
		WILL NOT	OCCUR		^	ــــــــــــــــــــــــــــــــــــــ			┪				
	agenta and a second	<u> </u>		, , <u> </u>		200			╅	· · · · · · · · · · · · · · · · · · ·			
•		SECT	ION VI	. S	SPILL	ORI	EAK	PROCE	d.	JRES			
S TO BE TAK	EN IN (									ill, avo	id moist	LUIE	*
										444			+
(Will	make	<u>alue. sut</u>	sequen	tly (	<u>diffi</u>	<u>cult</u>	to re	wûns)	┪				•
							_,	L	+	- Linda	dahla	<b>ም</b> ለነ ነ	·
DISPOSAL	. METH		manage of the same	······································						s biode	Tranante	.   U.b.b	, W13
		fede	ral sta	te,	or lo	cal	regula	tions	•			A	<u></u>
				-			•		╀	•	<del>Organización de la constantidad</del>		and the second s
		SECTION	1 > / ! ! !	COL	CIAI	מסח'	TECTI	ON IN	Fd	RMATIO	N.	<del></del>	<del></del>
·					**************************************								and the second
PIRATOR ? PI	ROTECT	IOH (Zbecil)	If n	eces	sary,	use	<u>face</u>	mask:	si.	<u>e. 3M #</u> scial		<u>simil</u>	17.
TILATION	1	CAL EXHAUS					<u> N/A</u>			HER	N/A	· ·	
N/A	· ME	CHANICAL (C	Jeneral)				N/A			ren	N/A		
TECTIVE GL	OVES	None				E,	E PROT	ECTION	I	necess	ary, qoq	<u>qles.</u>	
HER PROTECT	IVE EC		void di	rect	cont	act	with '	the sk	វេល	as much	as doss	ible.	voganny militaristico que a militari
		•	SECTIC	N IX	( - SP	ECI/	L PRE	CAUT	10	vs	<del>, , , , , , , , , , , , , , , , , , , </del>		
CAUTIONS T	O BE T										oduct au	uality	1
JII WAY	<u> </u>										,		<del>garana da sagara</del> d
-ER PRECAU	TIONS	No	one		·····			·	,		<u> </u>		
			,,		<u> </u>	· · · · · · · · · · · · · · · · · · ·			<u></u>				
1.4.1			٠									Form	OSHA-

(A)



#### AMERICAN COLLOID COMPANY

One North Arlington . 1500 West Shure Drive Arlington Heights, Illinois 60004-1434 • USA (708) 392-4600 • Telex ITT 4330321 Fax (708) 506-6199

> 301 101

MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

PRODUCT NAME: VOLCLAY FOUNDRY 13T

Page 1 of 3

#### Section I

## MANUFACTURER'S INFORMATION

Manufacturer's Name & Address:

American Colloid Company 1500 West Shure Drive One Worth Arlington Arlington Heights, Illinois 60004 Emergency Telephone Number: 708-392-4600 Telephone Number for Information: 708-392-4600 Date Prepared: June 21, 1991

#### HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Section II

Hazardous Components			Other Limits Recommended	% (optional)
(Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Kecommended	(operonae)
Crystalline Quartz CAS# 14808-60-7	•	•	*	2~6%
Respirable Crystalline Quartz			NIOSH	
present (TWA)	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup> TWA	50ug/m <sup>3</sup> TWA	<2%
proposed (TWA)		50ug/m <sup>3</sup> TWA	-	-
Nuisance Dust - Respirable	5mg/m <sup>3</sup>	5mg/m <sup>3</sup> 10mg/m <sup>3</sup>	•	-
- Total Dust	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	-	•

#### \* WARMING:

This clay product contains a small amount of crystalline silica which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification 2A.

#### PRODUCT IDENTIFICATION

Chemical Name: Bentonite Clay

Chemical Family: Natural Mineral, Montmorillonite

CAS No.: 1302-78-9
FORMULA: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron

NFPA/HMIS: Health - O, Fire - O, Reactivity - O, Specific Hazard - See Section VI Dot Class: Not Regulated



## AMERICAN COLLOID COMPANY

One North Arlington . 1500 West Shure Drive Arlington Heights, Illinois 60004-1434 . USA (708) 392-4600 • Telex ITT 4330321 Fax (708) 506-6199

> 301 101

Page 2 of 3

PRODUCT NAME: VOLCLAY FOUNDRY 13T

#### Section III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity  $(H_2O = 1)$ Boiling Point - Not Applicable - 2.5

Melting Point - Not Applicable Vapor Pressure (mm Hg.) - Not Applicable Vapor Density (AIR = 1) - Not Applicable Solubility in Water - Negligible Evaporation Rate (Butyl Acetate = 1) - Not Applicable

Appearance and Odor - Pale grey to buff powder or granules, odorless

#### Section IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) - Not Applicable UEL- -Flammable Limits Not Applicable LEL- -

Not Applicable Extinguishing Media

- Inorganic Mineral/Non-Flammable Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards - Not Applicable

#### Section V REACTIVITY DATA

Conditions to Avoid - None Known Stability Unstable -- X Stable

Incompatibility (Materials to Avoid) - None Known

Hazardous Decomposition or By-products - None Known

Hazardous Polymerization May Occur Will Not Occur - X Conditions to Avoid - None Known

#### HEALTH HAZARD DATA Section VI

Skin? No Ingestion? No Route(s) of Entry: Inhalation? Yes

Health Hazards (Acute and Chronic) - May cause delayed respiratory disease if dust inhaled over a prolonged period of time.

OSHA Regulated? No IARC Monographs? Yes NTP? No Carcinogenicity:

> IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification ZA.

Signs and Symptoms of Exposure - Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.

Medical Conditions Generally Aggravated by Exposure - Individuals with pulmonary and/or respiratory disease including but not limited to asthma and bronchitis should be precluded from exposure to dust.

Emergency and First Aid Procedures - Eyes - Flush with water. - Gross inhalation of dust - Remove to fresh air; give oxygen or artificial respiration if necessary; get medical attention.



## AMERICAN COLLOID COMPANY

One North Arlington • 1500 West Shure Drive Arlington Heights, Illinois 60004-1434 • USA (708) 392-4600 • Telex ITT 4330321 Fax (708) 506-6199

301 101

Page 3 of 3

PRODUCT NAME: VOLCLAY FOUNDRY 13T

#### Section VII

## PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, the product will become slippery when wet.

Waste Disposal Method - Follow federal, state and local regulations for solid waste.

Precautions to Be Taken in Handling and Storing - Avoid breathing dust, use NIOSH/MSHA approved respirator where TLV limits for Crystalline Silica may be exceeded.

Other Precautions - Slippery when wet.

#### Section VIII

## CONTROL MEASURES

Respiratory Protection (Specify Type) - OSHA standard 1910.134 or ANSI Z88.2-1980 specification.

Ventilation

Local Exhaust

- As appropriate

Special

Mechanical (General) - As appropriate

- None Other Eye Protection - Recommended

Protective Gloves - Not Required

Other Protective Clothing or Equipment - None

Work/Hygienic Practices

- Use good housekeeping practices.

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, American Colloid Company cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.

20-13

C O V E R
FAX
S H E E T

To:

Sal DeTragla

Company:

ABC/NACO Inc. - Downers Grove, IL

Fax#:

(630) 852-2264

From:

David Cozzi

SET Environmental, Inc.

Date:

April 16, 2001

Pages:

4 including this cover sheet.

COMMENTS:

Proposal #B104029

Hard copy to follow in mail.

If you want to proceed with referenced proposal, please sign where indicated and return via fax or mail.

Thank you.

From the desk of ...

David Cozzi Senior Environmental Analyst

> SET Environmental, Inc. 450 Sumac Road Wheeling, IL 60090 dcozzi@setenv.com

Phone: (847) 537-9221 Fax: (847) 537-9265

**SET Environmental, Inc.**Your Partner in Environmental Management



# SET Environmental, Inc.

450 Sumac Road Wheeling, Illinois 60090-6382 Tel: (847) 537-9221 • Fax (847) 537-9265

April 16, 2001

B104029

Mr. Sal DeTragla ABC/NACO Inc. 2001 Butterfield Road, Suite 502 Downers Grove, IL 60515

RE: Transportation, Disposal, Profiling, and Analysis of one (1) 55 gallon drum of 'Core Wash', one (1) 55 gallon drum of 'Glycol FR Fluid', one (1) 55 gallon drum of 'Waste Oil', one (1) 55 gallon drum of 'Warm Box Catalyst', four (4) 55 gallon drums of 'FAS Solvent', one (1) 55 gallon drum of 'Waste Compressor Oil', one (1) 55 gallon drum of 'Foseco Sand Binder', two (2) 55 gallon drums of 'Chem Rez 057853', one (1) 55 gallon drum of 'Environ Therm Resin', one (1) drum of 'Zip Slip LP78', one (1) 'Transformer' and two (2) 'Oil Switches', all located at your Melrose Park, Illinois facility.

#### Dear Mr. DeTragla:

SET Environmental is pleased to provide the following proposal for the safe and proper management of the above referenced chemical waste. A detailed breakdown of costs is provided to assist you in making the most informed decision possible.

#### Proposed Pricing:

#### Profiling and Analysis

Permit/Profiling Fee to disposal site - (assume 12 waste streams)	\$ 75.00/waste stream
Qualitative Unknown Identification Analysis (assume 1 sample)	\$ 250.00/sample
PCB Scan (assume 4 samples)	\$ 95.00/sample

#### Materials/ Equipment

85 gallon overpack drums (assume 2 drums)	\$ 125.00/each
---	----------------

#### Disposal Services

'Core Wash'	\$ 85.00/drum
Glycol FR Fluid	\$ 110.00/drum
'Waste Oil'	\$ 95.00/drum
'Warm Box Catalyst'	\$ 285.00/drum
'FAS Solvent'	\$ 95.00/drum
'Waste Compressor Oil'	\$ 95.00/drum
'Foseco Sand Binder'	\$ 285.00/drum
'Chem Rez 057853'	\$ 195.00/drum
'Environ Therm Resin'	\$ 285.00/drum
'Zip Slip L 278'	\$ 150.00/drum
'Transformer'	\$ 0.85/lb. gross weight
'Oil Switches'	\$ 0.75/lb. gross weight

мажиротопициры лес

### SET Environmental, Inc.

ABC/NACO Inc. Page 2 of 3

B104029

Note: Final disposal rate will be based on one quart representative sample, analysis report and actual acceptance into the designated disposal facility.

Waste Disposal Option(s):

Fuels blending, Stabilization followed by landfill

### Transportation Services

Transportation charge for 'Transformers' and 'Switches' \$ 1,450.00/load Pickup charge of all drums 300.00/load Demurrage (After 2.0 hours loading and 2.0 hours unloading) 78.00/hour

Total Estimated Project Cost:

\$ 5,875,00

If you have any further questions, please feel free to call me at (847) 537-9221 x 129.

Sincerely,

David M. Cozzi

Senior Environmental Analyst

DMC/js

### Conditions of Proposal

- Pricing is valid for sixty (60) days from the date of this proposal. 1.
- 2. Payment is due thirty (30) days from the date of invoice. Subject to credit approval.
- Drummed material must be in DOT UN-certified performance-oriented packagings. 3.
- Non-conforming wastes that are rejected at the disposal facility will be returned to the generator at 4. 100% transportation.
- SET Environmental provides information in good faith regarding available recycling, treatment, and 5. disposal options to assist our customers in disposal site selection. Customer acknowledges that the decision to ship waste to the site(s) specified in this proposal is their own. Furthermore, customer acknowledges that SET is not liable under CERCLA or any other body of legislation in regards to disposal site selection.

MINVPIDC-76/B104029-ABC

### SET Environmental, Inc.

ABC/NACO Inc. Page 3 of 3	B104029
*Your signature below indicates your acceptant proposal.	ce of the pricing, terms and conditions set forth in this
CUSTOMER ACCEPTANCE:  ABC/NACO Inc Downers Grove, IL	
(Name/Title)	(Date)
(Authorized Signamre)	(P.O.#)

\* New 24-Hour Emergency Toll-Free Number: 1-877-43SPILL (1-877-437-7455)

MAWADC-7010104020LABC

# ABC – NACO NATIONAL CASTINGS DIVISION ENVIRONMENTAL CONTROL PROCEDURES

### **BAGHOUSE DUST COLLECTORS**

The following procedures are required to control particulate emissions of baghouse dust for disposal.

### ARC FURNACE DUST

- A. Personal Protective Equipment
  - 1. Required ABC-NACO standard issue PPE.
  - 2. Disposable protective coveralls
  - 3. Leather gloves
  - 4. 3M 6000 series respirator with 2091 filter OR 3M W-3265 PAPR respirator with W-3267 filter
- B. An Aurora hopper must be placed directly under the discharge chute. Disposable bag must be firmly secured to the discharge chute and be inside the aurora hopper. The doors must be kept closed at each chamber.
- C. Fill bag to 3/4 capacity (do not overfill) and secure bag opening with duct tape or plastic/wire ties.
- D. Transport hopper and contents to the special waste roll-off container with the plastic
- E. liner located outside the Melt Shop and deposit bag into container.
- F. All spills must be immediately cleaned up using a broom, shovel, and plastic bag to contain spilled material. Seal bag with duct tape or plastic/wire and place in box with plastic liner.

### ARC FURNACE DUST FILTERS

- A. Personal Protective Equipment
  - 1. Same as indicated for Arc Furnace Dust collection and removal.
- B. When it becomes necessary to change the collection filters in the Arc Furnace dust collectors, the used filters will be placed inside a plastic bag and placed on top of the loaded and lined special waste roll-off containers. (Our special waste removal contractor uses "hazardous debris procedures" that are followed to handle this type of waste.)

# BAG HOUSE CREW

Safety Meeting Sign-up Sheet

ate: $\frac{3/2-7/0}{}$ ease sign in below:		
lame		Employee ID #
HARLES A. HOSSZG	LABOSER	2341
AtANACIO ALEMAN	LAROET	2711
MichaelMartener	Michaela	3157
Thomas to Salon	GEN. FOREMAN M.	AINT
You thompson g	nichanie	<u> 2179                                   </u>
	, <u></u>	
· · · · · · · · · · · · · · · · · · ·		
AND THE PROPERTY OF THE PROPER		· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·
		the control of the co
	The state of the s	

### PERSONNAL PROTECTIVE EQUIPMENT

ABC-NACO REQUIRED PPE TYVEC SUIT GLOVES (WHEN NEEDED)

APPROPRIATE RESPIRATOR

3M 6000 SERIES RESPIRATOR WITH 2091 PARTICULATE

FILTER OR

3M 7000 SERIES PAPR RESPIRATOR WITH 3267 FILTER

TRAINING ON CARE AND MAINTENANCE OF PPE. .
RESPIRATOR CARE, MAINTENANCE (INCLUDING CLEANING), SAFE WORK PRACTICES, AND LIMITATIONS HAS BEEN EXPLAINED.

# BAGHOUSE CREW

Safety Meeting Sign-up Sheet

	athe ider	Recognition of the second seco
Date: 4 April 2001	*	,
Please sign in below:	-	
Name	•	Employee ID #
	y VHOUR	2341
Langeri Alema	LAbor	2711
Wish a Olla Come	Mer honic	2157
Pla thousand no	machanie	2179
Norma to Selow	FORKMEN	SALBRE
<u> </u>		
		manegati a 1990 - 1 2200 - 1 Co. Super a 1990 - 1
and the state of t		
		<u></u>
	on the second second second second second second second second second second second second second second second	
· ·		<u>ения— — — — — — — — — — — — — — — — — — — </u>
7,		
	¢	*
		4
<u> </u>		

# BAG HOUSE CREW

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

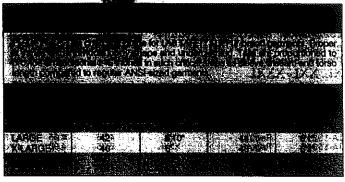
BASIC ISSUE	<u>OTHER</u>
✓HARD HAT ✓SAFETY EYEGLASSES ✓SAFETY SHOES WITH METATARSAL GUARDS	/ TYVEC SUIT
OPTIONAL PPE	
BURNING GLASSESBURNING GOGGLESGOGGLESFACESHIELD/HIGH HEAT FACESHIELDBLUE/GREEN FURNACE GLASSES - MELT SHOPWELDING HELMET WITH PROTECTIVE LENSEWINTER/SUMMER HELMET LINERS (OPTIONAL)	
GREEN NECK PROTECTOR  SLEEVES  CHIPPER LEATHERS (APRONS, CAPES, SPATS)  WELDER LEATHERS (APRONS, CAPES, SPATS)  FLAME RETARDANT GREENS (JACKET AND/OR  ALUMINUM WEAR (COATS, PANTS, SPATS)	TROUSERS)
HARD HAT - ELECTRICIAN HARD HAT MELT SHOP	
GLOVES (LEATHER, RUBBER, COTTON) GLOVES - ALUMINUM (A/W, MELT)	
RESPIRATORS  8511, 8512,  5000 SERIES (ACID GAS/ ORGANIC VAPOR  6000 SERIES (BAG HOUSE)  PAPR (BAG HOUSE/DUST COLLECTORS, SHA	
HEARING PROTECTION (EAR PLUGS, MUFFS)	<b>₽</b>
<u> </u>	NORTH CERAMIC FINISH SHELL PATTERN QA INSP SHOP

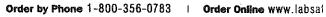
# BAG HOUSE CREW PPE/RESPIRATOR REQUIREMENTS ABC-NACO NATIONAL CASTINGS, DIV. CICERO

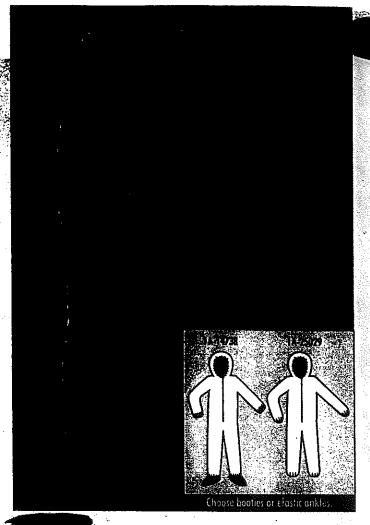
### Tyvek° Deluxe Coveralis

end, stoop, reach and work more easily wearing Lab
Safety Supply Tyvek® Deluxe Coveralls. Generous sizing
keeps you more comfortable during motion. Unique threedimensional design offers more freedom of movement for
your arms, body and legs. Our great quantity pricing on
Tyvek gives you extra room in your budget, too!









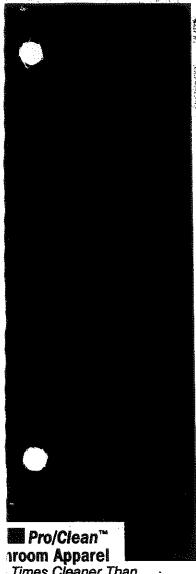
### Tyvek Deluxe Coveralls with Elastic Face Hood

Offers Less Restriction than Standard Designs
Keep more areas of your body covered and protected

Keep more areas of your body covered and protected against harmful particulates. User-friendly design gives you more room

with less binding while you're working.

Specifications: Hood has elastic gathers to cover your head yet allows plenty of room for full-face respiratory protection. Coverall with Hood, Elastic Wrists and Booties has attached slip-resistant booties to give you sure footing. Also available in Tall size. Coverall with Hood, Elastic Wrists and Ankles provides snug-fitting protection and helps seal out contaminants. Tapered torso with inset sleeves and built-in gussets gives you roomy comfort. Full-length zipper. Serged seams. White only. Compliance: Meets sizing requirements of ANSI/ISEA 101-1996. Please Specify Men's Size: S, M, L, XL, XXL, XXXL.



Times Cleaner Than ional Disposables

ucing Pro/Clean, the first dise garment to actually challenge sive reusables for cleanliness and rt. A great choice for light splash tion.

cations: Made of Pro/Shield® 2 a microporous polypropylene film ited to a polypropylene non-woven ate. Breathable to allow body vapor ape to help you stay cool. Holds in of all dry particulates down to 0.19 is in size. Extremely low-linting iti-static treated. Resists abrasion, iring and tearing. Serged seams.

Covers: M, L, XL.

Specify Size: M, L, XL.



Please Specim Heir Schen M. J. Col. (SA)

# Powered Air Purifying Respirator

Face-Mounted W-3265S



photo#4676

- Suggested Applications
   Abatement
- Nuclear/utilities
- Smelting
- · Lead reclamation
- · Pharmaceutical
- Foundry/steel
- Welding (W-3275L)
- Nuclear

Powered Air and Supplied Air Respirators

The 3M™ W-3265S Face-Mounted Powered Air Purifying Respirator's weight is evenly distributed for a comfortable and secure fit. This compact system is balanced by having the motor blower inside the facepiece. The low profile design provides a good field of vision and makes working in tight spots easier. The face-mounted PAPR uses a single HEPA filter for dusts, mists, fumes and radionuclides, making it ideal for lead, asbestos and other hazardous particulate environments.

### Features & Benefits

- NIOSH approved
- Lightweight
- · Durable silicone facepiece
- · Compact, low profile
- · High efficiency filter
- Intrinsically safe electrical components
- Filter cover
- W-3265S available in two facepiece sizes:
  - \_\_W-3265S-M (medium)



These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging. Call 3M OH&ESD Technical Service.

#### Important

Before using these respirators, you must determine the following:

- The type of contaminant(s) for which the respirator is being selected.
- 2. The concentration level of contaminant(s).
- 3. Whether the respirator can be properly fitted on the wearer's face. All respirator instructions, warnings and use and time limitations must also be read and understood by the wearer before use.

### Specifications

### Weight

· Facepiece, blower assembly and filter: 1.6 lbs. (0.73 kg)

### Battery

- · Service time: after 14-16 hours charge, up to 8 hours
- Life: up to 500 charge/discharge cycles (dependent on conditions).

### Fan Assembly

 Approximately 1000 hours (depending on use conditions)

### Maximum Use Concentrations

For use up to 1000 x PEL for full facepieces or applicable OSHA or other government limits, whichever is lower.

### Additional Information

To receive additional information, call our Fax on Demand at 1 800 646-1655 and request a document number, or see the appropriate page in this Resource Guide, as listed below.

Description	Document # / Page #		
Respirator Fit Testing	page A17		
Battery Maintenance Technical Bulletin	page D52		
Intrinsic Safety Summary	page D54		



### System Includes:

- 7800S silicone full-face
- 7890 facepiece plugs (2)
- W-2933 battery charger
- W-2954 battery
- W-3217 waist belt
- W-3266 motor blower unit
- W-3267 HEPA filter
- W-3269 flow meter
- W-3271 filter cover

### Ordering Information

Model	Description	UPC Code	National Stock #	
W-3265S-L	Size: large 1 respirator/case	0 00 51138 28937 9	4204-01-356-8495	
W-3265S-M	Size: medium 1 respirator/case	5 00 51138 28937 9	NA	

Please contact your local 3M distributor to place an order. To determine the location of the 3M distributor nearest you, simply call 1 800 896-4223.



Fax on Demand: 1 800 646-1655 E-mail: occsafety@mmm.com Web Site: www.3M.com/occsafety

				4 27 5
• • • • • •	Information  Description	Packaging	UPC Code	National Stock #
Model	····	1/box 1 box/case	5 00 51138 54259 2	4240-01-301-3200
7800S-L	Full Facepiece, Large		5 00 51138 54258 5	4240-01-342-5239
7800S-M	Full Facepiece, Medium	1/box 1 box/case		N/A
7890	Full Facepiece Plugs (2)	4/box 5 box/case	5 00 21200 60331 5	
	Spectacle Kit	1/box 1 box/case	0 00 51138 28918 8	<b>4240-01-395-412</b> 8
7925		1 pack	0 00 51138 16206 1	4240-01-248-8132
W-2933	Battery Charger		0 00 51138 19289 1	4240-01-248-8131
W-2954	Battery	1 pack	0 00 51138 21402 9	4240-01-301-4375
W-3217	Waist Belt, Urethane Coated	1 pack		4240-01-356-8907
W-3266	Motor Blower Unit	1 pack	0 00 51138 21607 8	
		36/pack	5 00 51138 46382 8	<b>4240-01-357-642</b> 7
W-3267-36		5/pack	0 00 51138 21609 2	<b>4240-01-356-89</b> 09
W-3268-5	Grill Cover		0 00 51138 21610 8	4240-01-357-6428
W-3269	Flow Meter	1/pack	0 00 51138 21611 5	<b>4240-01-356-89</b> 10
W-3270-10	Face-Mounted Filter Gasket	10/pack		
W-3271-5	Filter Cover	5/pack	0 00 51138 21644 3	<b>4240-01-356-89</b> 08
W-32/1-5	1 IKG, Odvo.	-	the leastion of the 3M (	lictributor nearest

Please contact your local 3M distributor to place an order. To determine the location of the 3M distributor nearest you, simply call 1 800 896-4223.

A complete description of the 7800S Full Facepiece can be found on page C128. Accessories for this product start on page C132.

owered Air and Supplied Air Respirato

### Fitting Instructions (must be followed each time respirator is worn)



 Place the respirator over your mouth and nose, then pull the head harness over the crown of your head.



Take the bottom straps in both hands, place them in back of your neck, and hook them together.



Position the facepiece low on the bridge of your nose for optimal visibility and the best possible lit.



4. Adjust top straps first by pulling on the ends. DO NOT pull too tight! (Strap tension may be decreased by pushing out on back side of buckles.) Perform a positive pressure and/or negative pressure facefit check. The positive pressure method is recommended.

Note: Use of the prefitter retainer may aid the respirator wearer in conducting a negative pressure facelit check.

### Inspection Procedure

The 6000 Series Respirator must be inspected before each use to ensure that it is in good operating condition. The facepiece should be disposed of upon observation of damaged or defective parts. The following inspection procedure is suggested.



- Check the facepiece for cracks, tears and dirt. Be certain the facepiece, especially the face seal area, is not distorted.
- Examine the inhalation valves for signs of distortion, cracking or tearing. Lift valves and inspect valve seat for dirt or cracking.
- 3. Examine that the head straps are intact and have good elasticity.
- Examine all plastic parts for signs of cracking or fatiguing. Make sure the gaskets are properly seated.
- Remove the exhalation valve cover and examine the exhalation valve and valve seat for signs of dirt. distortion, cracking or tearing. Replace the exhalation valve cover.

### Cleaning and Storage Instructions



Cleaning is recommended after each use.
 Remove the cartridges and/or fillers.

 Clean the facepiece (excluding filters and cartridges), with 3M Brand 504 Respirator Wipes or by immersing in warm cleaning solution, water temperature mot to exceed 120°F, and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing landlin or other oils.

Rinse in tresh, warm water and air dry in noncontaminated atmosphere.

 Respirator components should be inspected prior to each use. A respirator with any damaged or deteriorated components should be discarded.

The cleaned respirator should be stored away from contaminated areas when not in use.



### nstructions For Positive and Negative acefit Checks For 2000 Series Filters

liways Fit Check the Seal of the Respirator on Your ace Before Wearing



POSITIVE PRESSURE FIT CHECK Place the pairs of your hand over the exhalation valve cover and exhale gently. If the facepiece bulges slightly and no air leaks are detected between your face and the facepiece, a proper fit has been obtained. If face seal air leakage is detected, reposition the respirator on your face and/or readjust the tension of the elastic straps to eliminate the leakage. Repeal the above steps. If you cannot achieve a proper fit, DO NOT enter the contaminated area. See your supervisor.



**NEGATIVE PRESSURE FIT CHECK** Place your thumbs onto the center portion of the filters, restricting the airflow into the breathing tube of the filter, and inhale gently. If you feel the facepiece collapse slightly and pull closer to your face with no teaks between the face and the facepiece, a proper fit has been oblained. If face seal air leakage is delected, reposition the respirator on the face and/or readjust the tension of the straps to eliminate the leakage. Repeat the above steps until a light face seal is obtained. If you cannot achieve a proper fit, DO NOT enter the contaminated area. See your supervisor.

### To Attach the 2000 Series Filters to the 6000 Series Facepiece

Align opening of filter with filter adaptor on facepiece. Turn filter clockwise until it is firmly seated and cannot be further turned. Repeat for second filter.

### PERMISSIBLE RESPIRATOR FOR DUSTS, FUMES, MISTS, RADIONUCLIDES, RADION DAUGHTERS AND ASBESTOS-CONTAINING DUSTS AND MISTS

MSHA

Salety and Health Adminish Occupational Salety and Healt MICSH

APPROVAL NO. TC-21C-548

of beuses

3M, ST. PAUL MINNESOTA, U.S.A.

LIMITATIONS

Approved for respiratory protection against dusts, fumes, and mists having a time-weighted erage less than 0.05 milligram per cubic meter, radionuclides, radion daughters attached to the dusts, fumes and mists described above and asbestos containing dusts and mists

Not for use in atmospheres immediately dangerous to life or health

Not for use in atmospheres containing less than 19.5 percent oxygen

tot for use in atmospheres containing toxic gases and vapors

CAUTION

In making renewals or repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained

Follow the manufacturer's instructions for changing litters

This respirator shall be selected, litted, used, and maintained in accordance with the Mille Safety and Health Administration. Occupational Safety and Health Administration and other applicable

> MSHA-NIOSH APPROVAL TC-21C-548 ISSUED TO 3M APRIL 17, 1991

FOR DUSTS, FUMES, MISTS, RADIONUCLIDES, RADON DAUGHTERS AND ASBESTOS-CONTAINING DUSTS AND MISSTS

The approved \$140, 6240 and 6340 assembly for dusts, lumes, misss, radionuclides, radion daughters and asbestos-containing dusts and mists consists of the following 3M pans: 6100 or 6200 or 6300 facepiece assembly and 2040 (TC-21C-488) filters



Use product before expiration date. This respirator being protect against certain airborne contaminants. Misusa may result la sickness er death. For proper ase, see instructions, ask supervisor, or call OH&ESD Technical Service at 1-800-243-4630.

### Use Instructions

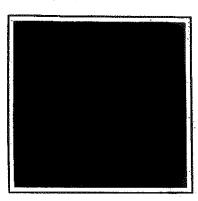
- 1. Failure to follow all instructions and limitations on the use of this respirator and/or failure to wear this respirator during all times of exposure, can reduce respirator effectiveness and may result in sickness or death.
- 2. The dusts, furnes, mists, gases and vapors which can be dangerous to your health include those which you cannot see.
- 3. Before use, the wearer must first be trained by the employer in proper respirator use in accordance with applicable salety and health standards.

  OSHA standard 1910.134 (e) (5) requires that the wearer be fit tested.
- 5. Leave the contaminated area immediately and replace respirator if:
  - a) II becomes damaged.
  - b) You taste or smell contaminants or an irritation occurs.
  - c) Breathing becomes difficult.
- d) Dizziness or other distress occurs.
- 6. Store this respirator away from contaminated areas when not in use.
- 7. The filters or prefilters must be replaced as soon as increased breathing resistance occurs.

### Use Limitations

- This respirator does not supply oxygen. Do not use in atmospheres containing less than 19.5%
- 2. Do not use when concentrations of contaminants are immediately hazardous to life and health, are unknown, or when the contaminant concentrations exceed 10 times the permissible exposure limit or applicable OSHA limits, whichever is lower.
- 3. For specific applications consult an industrial hygierest or call OH&ESD Technical Service at 1-800-243-4630.
- Do not after, abuse or misuse this respirator.
- 5. Do not use with beards or other facial halr or other conditions that prevent direct contact between the face and the edge of the respirator.

### **3M** 2091



Filtre P100 Particulate
Filtre P100 contre les particules
Filtro P100 contra partículas
Filtro P100 para partículas tóxicas

For use only with 3M<sup>™</sup> 5000 Series Respirators, 3M<sup>™</sup> 6000 and 3M<sup>™</sup> 7000 Series Facepieces Utiliser seulement avec les respirateurs 3M<sup>™</sup> de série 5000 et les masques 3M<sup>™</sup> des séries 6000 et 7000 Para usar con los respiradores 3M<sup>™</sup> de las Series 5000, 6000 y 7000 Para usar com respiradores 3M<sup>™</sup> séries 5000, 6000 e 7000

20

contenido 2 filtros

contém 2 filtros



3M 2091

Filter P100 Particulate

User Instructions

Filtre P100 contre les particules

Directives d'utilisation

Filtro P100 contra partículas

Instrucciones de uso

Filtro P100 para partículas tóxicas

Instruções para o usuário



### **⚠** WARNING

This filter helps protect against certain particles. Misuse may result in sickness or death. For proper use, see supervisor, or instructions, or call 3M in U.S.A., 1-800-247-3941. In Canada, call 1519 452-6137 or 1-800-265-1840, ext. 6137.

### A MISE EN GARDE

Ce fibre problège contre certaines particules. Se maneaise utilisation peut provoquer des problèmes de santé ou la mort. Pour tout renseignement sur l'utilisation adéquate de ce fibre, consulter son superviseur, lire les directives d'utilisation ou communiquer avec la Division des produits d'hyglène industrielet et de sécurité environnementale de 3M aux Etats-Unis en composent le 1 800 247-3941. Au Canada, composer le (519) 452-6137 ou le 1 800 265-1840 (poste 6137).

### **A** ADVERTENCIA

Este respirador protege contra ciertas partículas. El uso incorrecto puede ser causa de enfaremedad e museria. Para saber como usario correctamente, consulte a su supervisor, lea las instrucciones o liame al Servicio Técnico de la División OHBESD de 3M Mexico al 1-800-712-0646 gratufamente.

### ADVERTENCIA

Este fibre ajude a proteger contra certas particulas e proporciona alivio para incómodos provocados por gases ácidos. O uso inadequade pade causar enfermidade ou morte. Para o uso correto, veja instruções de ajuste na calxa, consulte seu supervisor ou as instruções, ou chama a 3M pelo número 0800-550705.

For use only with 3M<sup>™</sup> 5000 Series Respirators, 3M<sup>™</sup> 6000 and 3M<sup>™</sup> 7000 Series Facepieces.

Utiliser seulement avec les respirateurs 3M<sup>MC</sup> de série 5000 et les masques 3M<sup>MC</sup> des séries 6000 et 7000.

Para usar solamente con respiradores 3M<sup>str</sup> de las Series 5000, 6000 y 7000.

Para usar somente om respiradores 3M<sup>™</sup> séries 5000 e peças faciais 3M<sup>™</sup> séries 6000 e 7000.

#### IMPORTANT

Before use, the wearer must read and understand these *User Instructions*, and the 3M<sup>™</sup> 5000 Series Respirator, 3M<sup>™</sup> 6000 or 3M<sup>™</sup> 7000 Series Facepiece *User Instructions* enclosed with these products. Keep Insert for reference.

These filters are NIOSH approved only for use with 3M 5000 Series respirators, 3M 6000 and 3M 7000 Series facepieces.

#### Use For

Solids such as those from processing minerals, coal, fron ore, cotton, flour, and certain other substances. Liquid or oil based particles from sprays that do not also emit vapors. Metal furnes produced from welding, brazing, cutting and other operations involving heating of metals. Radioactive particulate materials such as uranium and plutonium. Asbestos.

### Do Not Use For:

Gases and vapors, including those present in paint spray operations, unless combined with approved chemical cartridges. Sandblasting.

#### lise instructions:

- Failure to follow all instructions and limitations on the use of filters and/or failure to wear these filters during all times of exposure can reduce respirator effectiveness and may result in sickness or death.
- 2. Before occupational use of these filters, a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134 such as training and fit testing and applicable OSHA substance specific standards. In Canada, CSA standard Z94.4-93 requirements must be met.
- 3. The particles which can be dangerous to your health include those so small you cannot see them.
- Leave the contaminated area immediately and contact supervisor if dizziness, irritation or other distress occurs.
- 5. Store the filters and respirator away from contaminated areas when not in use.
- 6. Dispose of used product in accordance with applicable regulations.

### **Use Limitations:**

 These filters do not supply oxygen. Do not use in atmospheres containing less than 19.5% oxygen.

2. Do not use when concentrations of contaminants are immediately dangerous to life and health, are unknown, or when concentration exceeds 10 times the permissible exposure limit (PEL) with half facepiece respirators or 50 times the PEL with full facepiece respirators, or according to specific OSHA standards or applicable government regulations, whichever is lower.

3. Do not alter, abuse or misuse these filters and/or respirator.

 Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the faceseal of the respirator.

#### Time Use Limitation:

 If filters become damaged, solled, or breathing becomes difficult, leave the contaminated area and dispose of the filters.

If used in environments containing only oil aerosols, dispose of filters after 40 hours of use or 30 days, whichever is first.

### IMPORTANT:

Avant de se servir du prodult, l'utilisateur doit line et comprendre les présentes directives d'utilisation ainsi que celles se rapportant au respirateur 3M<sup>er</sup> de série 5000 et au masque 3M<sup>er</sup> de série 6000 ou 7000. Conserver la notice à titre de référence. Ces fittres sont homologués par le NIOSH pour être utilisés uniquement sur les respirateurs 3M<sup>er</sup> de série 5000 et les masques 3M<sup>er</sup> de série 6000 ou 7000.

### Protège contre :

Les particules solides dégagées pendant le traitement des minéraux, du charbon, du mineral de fer, du coton, de la farine et de certaines autres substances. Les particules liquides ou à base d'huile provenant d'aérosols mais ne dégageant pas de vapeurs noclves. Les fumées métaliiques dégagées pendant les opérations mettant en jeu le chauffage des métaux, comme le soudage, le brasage et le coupage. Les particules radioactives, comme l'uranium et le plutonium. L'amiante.

### Ne protège pas contre :

Les gaz et les vapeurs, y compris ceux qui sont dégagés pendant les travaux de peinture en aérosoi, à moins que les filtres ne solent combinés aux cartouches chimiques homologuées pour cette utilisation. Les particules dégagées pendant le décapage au jet de sable.

#### Directives d'utilisation :

- Tout manquement aux directives et aux restrictions relatives à l'utilisation de ces filtres pendant la durée complète de l'exposition peut dirrinuer l'efficacité du respirateur et peut provoquer des problèmes de santé ou la mort.
- Avant d'utiliser ces filtres en milieu professionnel, vous devez mettre sur pied un programme de protection respiratoire écrit, conforme au règlement 29 CFR 1910.134 de l'OSHA, en matière de formation et d'essai d'ajustement par exemple, et aux normes sur les substances de l'OSHA. Au Canada, vous devez vous conformer à la norme CSA 794.4-93.

### EMERGENCY COORDINATOR/ALTERNATE AND SAFETY DIRECTOR INDENTIFICATION

To be notified in case of emergency situations:

**Emergency Coordinator**.

Russ Bagnuolo

Plant Manager

Office Phone: (708) 863-4800 ext. 434

SAFETY DIRECTOR:

Dan Schneider

Safety Director

Office Phone: (708) 863-4800 ext. 418

NOTE: The Safety Director is to be notified at the same time as the Coordinator or Alternate during emergency situations.

Alternates:

**Bob Thielmann** 

Maintenance Manager

Office Phone (708) 863-4800 ext. 213

Marc Marshall

Engirleering Manager

Office Phone: (708) 863-4800 ext. 206



### DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE

At all times, there will be at least one employee either on the facility premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period to time), with the responsibility for coordination all emergency response measures. This Coordinator /Alternate is thoroughly familiar with; all aspects of the facility: contigengency plan; all operations and activities at the facility; the location and characteristics of waste handled; the location of all records within the facility layout. In addition, this person has the authority to commit the resources needed to carry out the contingency plan for this facility.

The Emergency Coordinator/Alternate will be expected to accomplish the following:

- A) When there is an imminent or actual emergency situation he will:
  - 1) Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel of an emergency.
  - Notify appropriate Local, State, or Federal agencies designated for response roles-if assistance is required.
- B) Whenever there is a release, fire or explosion, immeditely identify the character, source, amount and area extent of any released materials.
- C) Will assess possible hazards to human health or the environment that may result from the Release, fire or explosion, including the effects of any gases generated or resulting surface water run-offs due to fire control measures.
- D) If the Emergency Coordinator/Alternate determines that the facility has had a release, fire or explosion which would threaten human health, or the environment, outside the facility he will report his findings as follows:
  - If the assessment indicates that evacuation of Local areas my be advisable, Appropriate Local authorities will notified (see Attachment 111-Emergency Situation Agency Telephone Numbers)
  - 2) The Coordinator/Alternate will immediately notify either the Government Official Designated as the On-Scene Coordinator for the Geographical area, or the National Response Center (using their 24 hour toll free number).



### DUTIES & RESPONSIBILITIES OF THE EMERGENCY COORDINATOR/ALTERNATE-continued

### D) Continued

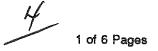
This report is to include:

- a) Name and telephone number of reporter.
- b) Name and address of facility involved.
- c) Time of incident occurrence and type of incident (release, fire or explosion).
- d) Name and quantity of hazardous materials involved.
- e) The extent of injuries, if any.
- The possible hazards to human health, or the environment, outside the facility.
- Will take all reasonable measures necessary to ensure that fires, explosions, and Releases do not occur, recur, or spread to other facility areas. Theses measures will E) include stopping processes and operations as required.
- Immediately after an emergency will provide for treating, storing, or disposing of recovered waste, contaminated soil, or surface water, or any other resulting material from F) release, fire, or explosion.
- Will ensure that the affected areas of the facility are cleaned up and all emergency equipment utilized during the emergency situation is cleaned and fit to use prior to G) resuming facility operations.
- He will notify the Regional Administrator and the appropriate State and Local Authorities that facility has returned all emergency equipment back into usable condition prior to H) resuming facility operations.
- Will note in the operating record the time, date and details of any incident that requires implementing the contingency plan. Within fifteen days after the incident, he will submit a 1) written report on the incident to the Regional Administrator. The report will include: Name, Address, and Telephone Number of the Owner or Operator; Name, Address, and Telephone Number of the Facility; Date, Time, and Type of Incident; Name and Quantity of Hazardous Waste Involved; The extent of injuries, if any; An Assessment of Actual or Potential Hazards to humal health or the Environment; Estimate the Quantity and Disposition of any Recovered Material resulting from the incident.

## Safety Meeting Sign-up Sheet

Emergency Situation Response duties and responsibilities for Emergency Coordinator/AlternateCoordinator and Safety Manager as outlined in the Topic: ABC-NACO "Contingency Plan"

Supervisor's signature	ABC-NACO COMMINGUISTICS SOLVETEINER
ease sign in below:  Employee ID *  Much My  Manual Achievela  Manual Manual Achievela  Manual Achievela  Manual Achievela  Manual Achievela  Manual Achievela  Manual Ged Foreman	nducted by: D. C & SCHNEWER 2001
ease sign in below:  I will Tall  Man I My Safety Man Phon Man Mark  Man Digner  Phon Mark  Eluture of View Maint GEV. FOREMAN	A = A = A = A = A = A = A = A = A = A =
Legent Tal  Legent Tal  Mend My  Mand My  Safeta My  FAMNT Mell  CHUMEN FOREMAN  MAINT GEN. FOREMAN	/
Mount of Achievely  Manual of Achievely  Safety man  Phant mer  Phant mer  Eletwich foreur  Manust Ged. Foreman	
Manuel Achiender Satety Mar Phant Mel Eletwich foreun Manuel Ged. FOREMAN	Employee ID *
Marsfull Phon mar Mars Mars Mars Mars Mars Mars Mars Ma	ale of last the
Norman to delon MAINT GEN. FORBURD	Satity mg
Norman to delon MAINT GEN. FORBURD	PLANT MER.
Norman to delon MAINT GEN. FORBURD	Clatical Alyer
Phonom to delore MAINT GEV. FOREMAN	My Marshall Canal
Phonom to delore MAINT GEV. FOREMAN	6 ANGUST 2001
	MAINT GEV. FOREMAN
	Horman Willow
Supervisor's signature	4
Supervisor's signature	
	Supervisor's signature



### MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Names/Trade Names:

Silica Sand sold under various names, ASTM TESTING SANDS, MYSTIC WHITE®, F-SERIES FOUNDRY SANDS, PENN SAND®, Q-MIXTM, Q-ROK®, GRAVEL PACK, SIL-CO-SIL®, HYDRAULIC FRACING SANDS, SUPERSIL®, MIN-U-SIL®

Synonyms/Common Names:

Sand, Silica Sand, Quartz, Crystalline Silica, Flint, Ground Silica.

Manufacturer's Name: U. S. Silica Company

**Emergency Telephone Number:** 

Date Prepared: February 1, 1995

P. O. Box 187

304-258-2500 304-258-8295 (fax)

Berkeley Springs, WV 25411

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient:

Crystalline silica (quartz), typically 99.2% to 99.9%

Chemical Formula:

SiO,

CAS#: 14808-60-7

**OSHA PEL:** 

Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit 10 mg/m³ as stated in 29 CFR § 1910.1000 Table Z-1-A, Air Contaminants, specifically: %SiO<sub>2</sub>+2

ACGIH TLV:

Crystalline Quartz

TLV—TWA = 0.1 mg/M³ (Respirable Crystalline Quartz)

See Threshold Limit Value and Biological Exposure Indices for American Conference of

Governmental Industrial Hygienists (latest edition).

Other Recommended Limits:

National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/M³ (respirable free silica) as determined by a fullshift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a

Recommended Standard Occupational Exposure to Crystalline Silica.

### SECTION 3 — HAZARD IDENTIFICATION

### **EMERGENCY OVERVIEW:**

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Crystalline silica (quartz) is classified as a probable human carcinogen.

Crystalline silica (quartz) is not flammable, combustible or explosive. It does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effects. Crystalline silica (quartz) is not an environmental hazard.

### POTENTIAL HEALTH EFFECTS:

### inhalation:

a. Silicosis

Exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death.

b. Cancer

There is evidence that respirable crystalline silica is a carcinogen.

c. Scleroderma

There is evidence that exposure to respirable crystalline silica or the disease silicosis is associated with the increased incidence of scleroderma, an immune system disorder manifested by a fibrosis (scarring) of the lungs, skin and other internal organs.

d. Tuberculosis

Individuals with silicosis are predisposed to develop tuberculosis.

Nephrotoxicity

There are several recent studies suggesting exposure to respirable crystalline silica or the disease silicosis is associated with the increased incidence of kidney lesions.

NOTE: Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C it can change to a form of crystalline silica known as trydimite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. Crystalline silica as trydimite and cristobalite are more fibrogenic than crystalline silica as quartz. The OSHA PEL for crystalline silica as trydimite and cristobalite is one-half the PEL for crystalline silica (quartz); the ACGIH TLV for silica - crystalline trydimite and cristobalite is one-half the TLV for silica - crystalline quartz. Eye Contact: Crystalline silica (quartz) may cause abrasion of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Chronic Effects: The adverse health effects - silicosis, cancer, scleroderma and tuberculosis -- are chronic effects.

Signs and Symptoms of Exposure: There are generally no signs or symptoms of exposure to crystalline silica (quartz). The symptoms of chronic or ordinary silicosis, if present, are shortness of breath, wheezing, cough and sputum production. The symptoms of acute silicosis are the same; additionally, weight loss and fever are associated with acute silicosis. The symptoms of scieroderma include thickening and stiffness of the skin, particularly in the fingers, shortness of breath, difficulty swallowing and joint problems.

Medical Conditions Generally Aggravated by Exposure: The condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

See Section 11, Toxicological Information, for additional detail on potential adverse health effects.

### **SECTION 4 — FIRST AID MEASURES**

Inhalation: No specific first aid necessary since the adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposures. If there is a gross inhalation of crystalline silica (quartz), remove the person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

Eye Contact: Wash immediately with water. If irritation persists, seek medical attention.

Skin Contact: Not applicable.

Ingestion: Not applicable.

### **SECTION 5 — FIRE FIGHTING MEASURES**

Flammability: 0

Crystalline silica (quartz) is non-flammable and non-explosive Extinguishing Media:

None required.

Flash Point:

None

Special Firefighting Procedures:

N/A

Flammable Limits:

None

Unusual Fire and Explosion Hazards:

None

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Spills: Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment specified below.

Waste Disposal Method: See Section 13.

### SECTION 7 — HANDLING AND STORAGE

Precautions in Handling and Storing: Avoid breakage of bagged material or spills of bulk material. See control measures in Section 8.

Precautions During Use: Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. See also control measures in Section 8.

### U. S. Silica Company materials should not be used for sandblasting.

The OSHA Hazard Communication Standard, 29 CFR Sections 1910.1200, 1915.99, 1917.28, 1918.90, 1926.59, and 1928.21, and state and local worker or community "right to know" laws and regulations should be strictly followed. WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS-USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARDS AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE OSHA PRECAUTIONS.

See also American Society for Testing and Materials (ASTM) standard practice E 1132-86, "Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust."

### SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Local Exhaust: Use sufficient local exhaust to reduce the level of respirable crystalline silica to the PEL. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice" (latest edition).

Respiratory Protection: The following chart specifies the types of respirators which may provide respiratory protection for crystalline silica.

CONDITION Particulate Concentration	MINIMUM RESPIRATORY PROTECTION*
5 x PEL or less	Any dust respirator.
10 x PEL or less	Any dust respirator, except single-use or quarter-mask respirator. Any fume respirator of high efficiency particulate filter respirator Any supplied-air respirator. Any self-contained breathing apparatus.
50 x PEL or less	A high efficiency particulate filter respirator with a full facepiece. Any supplied-air respirator with a full facepiece, helmet, or hood. Any self-contained breathing apparatus with a full facepiece.
500 x PEL or less	A powered air-purifying respirator with a high efficiency particulate filter.  A Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.
Greater than 500 x PEL or entry and escape from unknown concentrations	Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.  A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.
*Only NIOSH	approved or MSHA-approved equipment should be used. (See 29 CFR §1910.134).

See also ANSI standard Z88.2 (latest revision) "American National Standard for Respiratory Protection"

Permissible Exposure Levels: See Section 2.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES White or tan sand; granular, crushed, or ground Appearance: None Odor: 4046°F **Boiling Point:** 2.65 Specific Gravity (H,O = 1): None Vapor Pressure (mm Hg.): 3110°F Melting Point: None Vapor Density (AIR = 1): Evaporation Rate (Butyl Acetate = 1): None

Insoluble in water

### SECTION 10 — STABILITY AND REACTIVITY

Stability: Crystalline silica (quartz) is stable.

Solubility in Water:

incompatibility (Materials to Avoid): Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, oxygen difluoride, may cause fires.

Hazardous Decomposition or Byproducts: Silica will dissolve in hydrofluoric acid and produce a corrosive gas - silicon tetrafluoride.

Hazardous Polymerization: Will not occur.

### SECTION 11 — TOXICOLOGICAL INFORMATION

### A. SILICOSIS

The major concern associated with exposure to respirable crystalline silica is <u>silicosis</u>, caused by the inhalation and retention of respirable crystalline silica dust. Silicosis can exist in several forms, chronic or ordinary, accelerated or acute.

Chronic or Ordinary Silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust. It is further defined as either simple or complicated silicosis.

Simple silicosis is characterized by lung lesions (shown as radiographic opacities) less than 1 centimeter in diameter, primarily in the upper lung zones. Often, simple silicosis is not associated with symptoms or disability.

Simple silicosis may be progressive and may develop into complicated silicosis or progressive massive fibrosis (PMF). Complicated silicosis and PMF are characterized by lung lesions greater than 1 centimeter in diameter. The symptoms are shortness of breath, wheezing, cough and sputum production. Complicated silicosis and PMF can result in pulmonary heart disease. PMF may be disabling and may lead to death.

Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; the lung lesions can appear within five (5) years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that the lung lesions appear earlier and the progression is more rapid.

Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis is fatal.

### **B. CANCER**

<u>IARC</u> The International Agency for Research on Cancer, in Volume 42, published in 1987, concluded that there was sufficient evidence of the carcinogenicity of crystalline silica to experimental animals, but that there was limited evidence of the carcinogenicity of crystalline silica to humans. Group 2A.

NTP The National Toxicology Program, in its Sixth Annual Report on Carcinogens, concluded that "silica, crystalline (respirable)" may reasonably be anticipated to be a carcinogen, based on sufficient evidence in experimental animals and limited evidence in humans.

The carcinogenicity of crystalline silica (quartz) is a matter of controversy. A number of studies support an association between silica and cancer. Some are based on work with experimental animals, and there are uncertainties in extrapolating animal data to humans. Also, it appears that the positive animal studies are limited to single species, rats, and that studies using other rodent species have been negative. The results of the numerous epidemiological studies assessing the carcinogenicity of silica in humans are positive and negative. The limitations in the epidemiological studies result from: 1) inadequate silica exposure assessments; 2) possible confounding by exposure to other occupational carcinogens; 3) possible confounding from cigarette smoking. The issues regarding silica, silicosis and lung cancer are set forth in the following materials (among others): Current Pulmonology, Chapter 8, entitled "Occupational Lung Disease", Gee, J. Bernard (1992). Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). Do Silica and Asbestos Cause Lung Cancer?, Arch. Pathol. Lab. Med., Vol. 116, No. 1, pp. 16-19 (1992). Silica: is it a carcinogen, J. Occup. Health & Safety - Aust. NZ, Vol. 6, No. 6, pp. 481-490 (1990).

Silica and lung cancer: a controversial issue, Eur. Respir. J., Vol. 4, pp. 730-744 (1991).

### C. SCLERODERMA

There is evidence that exposure to respirable crystalline silica or the disease silicosis is associated with the increased incidence of scleroderma, an immune system disorder manifested by a fibrosis (scarring) of the lungs, skin and other internal organs. The following may be consulted for additional information on silica, silicosis and scleroderma (also known as progressive systemic sclerosis): Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). Silica, Silicosis, and Progressive Systemic Sclerosis, British Journal of Industrial Medicine, Volume 42, Number 12, pp. 838-843 (1985). Diseases Associated with Exposure to Silica and Nonfibrous Silicate Minerals, Arch. Pathol. Lab. Med., Volume 112, Number 7, pp. 673-720 (1988).

### D. TUBERCULOSIS

Individuals with silicosis are predisposed to develop tuberculosis. The following may be consulted for further information: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994).

### E. NEPHROTOXICITY

There are several recent studies suggesting exposure to respirable crystalline silica or the disease silicosis is associated with the increased incidence of kidney lesions. The following may be consulted for additional information on silica, silicosis and nephrotoxicity: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). A study of silica nephrotoxicity in exposed silicotic and non-silicotic workers, British Journal of Industrial Medicine, Vol. 49, No. 1, pp. 35-37 (1992). Further evidence of human silica nephrotoxicity in occupationally exposed workers, British Journal of Industrial Medicine, Volume 50, Number 10, pp. 907-912 (1993).

### SECTION 12 — ECOLOGICAL INFORMATION

Crystalline silica (quartz) is not ecotoxic, i.e., there is no data which suggests that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants. For additional information on crystalline silica (quartz), see sections 9 (physical and chemical properties) and 10 (stability and reactivity) of this MSDS.

### SECTION 13 — DISPOSAL CONSIDERATIONS

General: The packaging and material may be landfilled; however, material should be covered to minimize generation of airborne dust.

RCRA: Crystalline silica (quartz) is <u>not</u> classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

The above applies to materials as sold by U.S. Silica Company. The material may be contaminated during use, and it is the responsibility of the user to assess the appropriate disposal of the used material.

### SECTION 14 — TRANSPORT INFORMATION

Crystalline silica (quartz) is not a hazardous material for purposes of transportation under the U. S. Department of Transportation Table of Hazardous Materials, 49 CFR 172.101.

### **SECTION 15 — REGULATORY INFORMATION**

### UNITED STATES (FEDERAL AND STATE)

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7.

RCRA: Crystalline silica (quartz) is <u>not</u> classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

CERCLA: Crystalline silica (quartz) is <u>not</u> classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

Emergency Planning and Community Right to Know Act: Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

Clean Air Act: Crystalline silica (quartz) mined and processed by U.S. Silica Company was not processed with or does not contain any Class I or Class II ozone depleting substances.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR 175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica (quartz) is classified as a probable carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

California Proposition 65: Crystalline silica (quartz) is classified as a substance known to the state of California to be a carcinogen.

### CANADA

Domestic Substances List: U. S. Silica Company products, as naturally occurring substances, are on the Canadian DSL.

WHMIS Classification: D-2A

### OTHER

EINECS No.: 231-545-4

EEC Label (Risk/Safety Phrases): R 48/20, R 40/20, S22, S38

IARC: Crystalline silica (quartz) is classified in IARC Group 2A.

National, state, provincial or local emergency planning, community right to know or other laws, regulations or ordinances may be applicable—consult applicable national, state, provincial or local laws.

### SECTION 16 — OTHER INFORMATION

### Hazardous Material Information System (HMIS):

Health \*
Flammability 0
Reactivity 0
Protective Equipment E

### National Fire Protection Association (NFPA):

Health 0 Flammability 0 Reactivity 0

### Warning Label Text:

### **WARNING!**

Contains Silica Dust That Can Be Harmful If Inhaled. Avoid Breathing Dust.

#### **HAZARDS**

Contains silica dust that can cause severe and permanent lung damage and other diseases.

- Breathing silica dust can cause silicosis, a lung disease that can cause serious breathing difficulties and death.

- Breathing silica dust may cause cancer.

- Breathing silica dust may cause scleroderma, a scarring of the skin and internal organs.

- Breathing silica dust may not cause noticeable injury or illness, even though permanent lung damage may be occurring.

### **PRECAUTIONS**

- Avoid breathing dust.
- Wear a respirator approved for silica dust when using, handling, storing or disposing of this product or bag.
  - Do not rely on your sight to determine if dust is in the air. Silica may be in the air without a visible dust cloud.
- Use with adequate ventilation and dust collection systems to keep silica dust below permissible limits.
- Avoid creating dust when using, handling, storing or disposing of this product or bag.
  - Do not dry sweep product. Wet product with water or use a dustless method (vacuum) to clean spills.
  - Do not allow dust to collect, on floors, sills, ledges, machinery, or equipment.
- DO NOT USE FOR SANDBLASTING!

See U.S. Silica Company Material Safety Data Sheet in Your Employer's Possession for More Information on Hazards and Precautions

CAS #14808-60-7

### U. S. SILICA COMPANY DISCLAIMER

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by purchase, resale, use or exposure to our silica. Customers-users of silica must comply with all applicable health and safety laws, regulations, and orders, including the OSHA Hazardous Communication Standard.

<sup>\*</sup> For further information on health effects, see sections 3 and 11 of this MSDS.

Signature:

Sempler's Employer:

Sampler's Name (printed):

Terri Savin, Special Waste Analyst Name, Title. Signature Date

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PL	EASE TYPE (Form designed for use on elite (1		ate Form LPC 62 8/81	IL532-0610 00-22 (Rev. 6-89)	F 4-	- / 646					
	UNIFORM HAZABDOUS	1. Generator's US		Manifest	2. Page 1	proved, OMB I	No. 2050-00 on In the s		mes is	not	
-	WASTE MANIFEST	1		Document No.	ol	required t	y Federal I	aw, but is	require	id by	
	ABC-NACO, National Castings Inc  1400 S Laramie Ave. Cicero IL 60804  B. Generator's IL  10 Number - 10, 3						A. Illinois Manifest Document Number				
							280 FEE PAID IF APPLICABLE				
							1.0.5	10151110101017			
	4. "24 HOUR EMERGENCY AND SPILL ASSIS" 5. Transporter 1 Company Name	<del></del>	·	NI 1	C. Transpo	rtar's		טוין	1011	<u> </u>	
	1 .	· 6.	US EPA ID	Number	ID Numb	per 010		^ l. = -			
	BFI Melrose Park 7. Transporter 2 Company Name	<u> </u>	IIS EPA ID			rter's Phone	(/08)	345	/050		
		ÿ.	00 5 7 15			)er					
	9. Designated Facility Name and Site Address	10.	US EPA ID	Number	F. Transpo	rter's Phone	<b>(</b> )				
	Environtech Landfill				G. Facility's	IL a 6	2 0 1	8 1 4 0 0 0 2			
	1800 Ashley Rd. Morris II 6	50450 ı								12	
			Ol		H. Facility's		<del>,                                     </del>	2 180	0		
	11. US DOT Description (Including Proper Shipp	ung warne, mazara	Class, and ID Number		,	13. Total	14. Unit	ا Was	i. I No		
G	a.	<u> </u>		No.	Туре С	luantity	Wt/Vol	EPA HW		19	
E	Spent Foundry Sand		-	0 0 1	DT		TN_				
ZE						111	3	69005	5133	<b>;</b>	
P	b.							EPA HW	Numb	ør	
A			•				  -	<del></del>		•••	
T	G.			, ,	<u>  </u>	<u> </u>	-	EPA HW	l blesseb		
FI	0.							ELN UM	nump	⊖r	
1				, ,	,						
	d.							EPA HW	Numb	9f	
						•					
1	J. Additional Description for Materials Listed Above Allied Approval # 369005133  K. Handling Codes for Wastes L					isted Ab	OVE				
	Allied Approval # 369005133									i	
					İ						
	15. Special Handling Instructions and Additional	Information									
										,	
	16. GENERATOR'S CERTIFICATION: I hereby dec	less that the contents	of this reminer and or	- Fills and annual t							
	proper shipping name and are classified, packe according to applicable international and nation	d. marked, and lahele	ed, and are in all respec	e rony and accuratery ets in proper condition	described and for transport	ove by by highway					
	If I am a large quantity generator, I certify that	I have a program in	place to reduce the vol-	ume and toxicity of v	vaste generate	ed to the dec	ree I hav	e determ	ined to	6	
	and future threat to human health and the envir	ected the practicable ronment: QR, if I am	method of treatment, st a small cuantity general	ntana ar dienocal e	month availab	do to ma uti	ich minimi				
	select the best waste management method that	is available to me ar	nd that I can afford.				,stc		ite		
	Printed/Typed Name		Signature				Λ	donth D	Day 1	Year	
Y				*** <u> </u>	<u> </u>						
A	17. Transporter 1 Acknowledgement of Receipt Printed/Typed Name	of Materials	T 60	<del> </del>					ite		
N	1 innew typed traine		Signature				•	Aonth E	Day 1	Year	
P	18. Transporter 2 Acknowledgement of Receipt of Materials						<del></del> 1 ·	De	ste		
TRANSPORTER	Printed/Typed Name		Signature							Year	
Ā											
	19. Discrepancy Indication Space			0.000		•					
FACL											
C											
Ļ	20. Facility Owner or Operator: Certification of re	celot of hazardous	materials covered by	his manifest even	t seema ac	dom 10		P	,		
i	Printed/Typed Name		S.gnature	mo mamosi except	as noted in	10111 19.		Da Jonth D	ale Day \	'ear	
						*	,				

# Test/America

Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804 06/29/2001

Job Number: 01.05664

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: SLAG Beneficial Reuse/Foundry Sand-Cicero

Sample Description Date Date Number Sample Description Taken Received

632465 Foundry Sand 06/11/2001 06/12/2001

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Diane Billings

Project Manager

Page 1 of 5



### ANALYTICAL REPORT

Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804

06/29/2001

Sample No. : 632465

Job No.: 01.05664

Sample Description:

SLAG Beneficial Reuse/Foundry Sand-Cicero

Date Taken:

ASTM Secondary Standards

ASTM-Solids, Total Dissolved

ASTM-Chloride

asTM-Sulfate

ASTM-Copper, ICP

ASTM-Manganese, ICP

ASTM-Iron, ICP

ASTM-Zinc, ICP

06/11/2001

07:10

Date Received:

06/27/2001

06/22/2001

06/18/2001

06/15/2001

06/15/2001

06/15/2001

06/15/2001

06/12/2001

EPA 325.2

SW 9038

SM 2540C

SW 6010

SW 6010

SW 6010

SW 6010

Time Received:

09:40

kmb

mpe

jtt

jtt

jtt

jtt

Time Taken: Time Analyst Analytical Reporting Date Unite Result Flag Parameter Initials Method Analyzed Limit Analyzed ASTM D3987-85 cdp 06/26/2001 1.0 mg/L 16.7 ASTM-Solids, Total ASTM D3987-85 06/18/2001 14:35 awm units 0.10 9.60 ASTM-pH ASTM D3987-85 reh 06/12/2001 Complete ASIM Preparation BPA 340.2 06/19/2001 បមេន mg/L 0.05 :0.25 ASTM-Fluoride SW 9210 06/18/2001 mpe 1.0 mg/L ASTM-Nitrate + Nitrite SW 3020 06/14/2001 vqm complete Metals Prep, GFAA ASTM SW 3010 vgm 06/14/2001 complete Metals Prep, ASTM SW 7061 kbh 06/15/2001 0:0050 mg/L <0.0050 ASTM-Arsenic, GFAA SW 6010B itt 06/15/2001 0.020 mg/L <0.020 ASTM-Barium, ICP SW 6010B jtt 06/15/2001 0.005 mg/L <0.005 ASTM-Cadmium, ICP SW 6010B jtt 06/15/2001 0.040 mg/L <0.040 ASTM-Chromium, ICP SW 7421 kbh 06/14/2001 0.0050 mg/L 0.0058 ASTM-Lead, GFAA SW 7740 kbh 06/15/2001 0.0050 mg/L <0.0050 ASTM-Selenium, GFAA

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

10

25

0.020

0.050

0.010

0.020

complete

<5

<10

230

<0.020

<0.050

<0.010

<0.020

M+ : Analyte quantified by MSA because spike did not pass recovery criteria P : RPD is outside laboratory control limits



Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804 06/29/2001

Job Number: 01.05664

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Project Description:

### CASE NARRATIVE

No analytical exceptions were noted outside of routine method protocols, except as may be noted by data flags (qualifiers) on the individual sample results.

Page 3 of 5



≪	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
n/s	. No coliform bacteria were present and the opinion is satisfactory.
P/U	: Coliform bacteria were present and the opinion is unsatisfactory.
wg/L	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
<b>ug/</b> g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Sure:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Percent: To convert ppm to %, divide the result by 10,000.  To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Kethod	References
ASTM	"American Society for Testing Materials"
BPA	"Methods for Chemical Analysis of Water and Wastes", USEPA, EPA 600/4-79-020, Revised March 1983.
EPA	"Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA 600/4-82-057, July 1982.
SDWA	"Methods for the Determination of Organic Compounds in Pinished Drinking Water and Raw Scurce Water", USEPA, September 1986.
SDWA	"Methods for the Determination of Metals in Environmental Samples", Supplement I USEPA, EPA-600/R-94/111, May 1994.
SM:	"Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WPCF, 18th Edition.
SW	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", USEPA, SW-846.

Page 4 of 5

# Test/America

Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804

632462

06/29/2001

Job Number: 01.05662

100221 IEPA Cert. No.: 999447130 WDNR Cert. No.:

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: SLAG Beneficial Reuse/Foundry Sand-Cicero

Date Date Sample Received Sample Description Taken Number 06/12/2001 06/11/2001 Foundry Sand

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Project Manager

Jean Bellings

Page 1 of 6



### ANALYTICAL REPORT

Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804

06/29/2001

Sample No. : 632462

Job No.: 01.05662

Sample Description: SLAG Beneficial Reuse/Foundry Sand-Cicero

Date Taken: 06/11/ Time Taken: 07:00

06/11/2001

Date Received: 06/12/2001

Time Received: 09:40

Parameter	Result	Flag	Units	Reporting Limit	Date Time Analyzed Analyzed	Analyst Initials	Analytical Method
ASTM-Solids, Total	46.7		mg/L	1.0	06/26/2001	cđp	ASTM D3987-85
ASTM, ZHE Volatiles Prep	Complete				06/13/2001	jjh	SW 1311
ASTM-Volatiles 8260						<b>3</b>	SW 8260B
ASTM-Benzene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Bromoform	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Browodichloromethane	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Carbon tetrachloride	<0.001		mg/L	6.001	06/18/2001	dap	SW 8260B
ASTM-Chloroform	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Dibromochloromethane	<0.001		mg/L	0.001	06/18/2001	dap	= '
ASTM-1,2-Dichloroethane	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-1,1-Dichloroethylene	<0.001		mg/L	0.001	06/18/2001	đap	SW 8260B
ASTM-cis-1,2-Dichloroethylene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTMtrans-1,2-Dichloroethylene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-1,2-Dichloropropane	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Ethylbenzene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Monochlorobenzens	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Styrene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Tetrachloroethylene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Toluene	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-1,1,1-Trichloroethane	<0.001		mg/L	0.001	06/18/2001	dap	SW 8260B
ASTM-Trichloroethylene	<0.001		mg/L	0.001	06/18/2001	đap	SW 8260B
ASTM-Tribalomethanes (total)	<0.004		mg/L	0.004	06/18/2001	dap	SW 8260B
ASTM-Vinyl chloride	<0.002		mg/L	0.002	06/18/2001	dap	SW 8260B
ASTM-Kylenes (total)	<0.003		mg/L	0.003	06/18/2001	dap	SW 8260B
Surr: Dibromofluoromethane	110.0		*	75-124	06/18/2001	dap	SW 8260B
Surr: Toluene-d8	100.0		ŧ	85-115	06/18/2001	đap	SW 8260B
ATT. 1400000 M.							



### ANALYTICAL REPORT

Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804

06/29/2001

Sample No. : 632462

Job No.: 01.05662

Sample Description:

SLAG Beneficial Reuse/Foundry Sand-Cicero

Date Taken: Time Taken:

06/11/2001

07:00

Date Received:

06/12/2001

09:40 Time Received:

Parameter

Result

Flag Units Reporting Limit

Time Analyzed Analyzed Initials

Analyst

Analytical Method

Surr: 4-Bromofluorobenzene

96.0

79-122

06/18/2001

dap

SW 8260B



Mr. Jerry Farmer NATIONAL CASTINGS INC. 1400 So. Laramie Av. Cicero IL 60804 06/29/2001

Job Number: 01.05662

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Project Description:

#### CASE NARRATIVE

No analytical exceptions were noted outside of routine method protocols, except as may be noted by data flags (qualifiers) on the individual sample results.

Page 4 of 6



	KEY TO ARRESTATIONS and married out about the analyte was not detected at or
<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
N/S	: No coliform bacteria were present and the opinion is satisfactory.
P/U	: Coliform bacteria were present and the opinion is unsatisfactory.
eg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
49/S	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Suff 2	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Percent; To convert ppm to %, divide the result by 10,000.  To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
gpaa	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
<b>Method</b>	References
ASTM	*American Society for Testing Materials*
epa	"Methods for Chemical Analysis of Water and Wastes", USEPA, EPA 600/4-79-020, Revised March 1983.
EPĀ	"Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA 600/4-82-057, July 1982.
SDWA	"Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", USEPA, September 1986.
SDWA	"Methods for the Determination of Metals in Environmental Samples", Supplement I USEFA, EPA-600/R-94/111, May 1994.
SM	"Standard Methods for the Examination of Water and Wastewater", APHA-ANWA-WPCF, 18th Edition.
SW	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", USBPA, SW-846.

Page 5 of 6



8100 North Austin Avenue Morton Grove, Illinois 60053-3203 Tel: 847-967-6666 Fax: 847-967-6735 www.emt.com

August 31, 2000

Mr. Mike Egizio BFI/Allied Waste 5050 West Lake Street Melrose Park, IL 60160

Re:

**National Casting** 

Dear Mr. Egizio,

The enclosed analytical reports are for the project listed above. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Megan P. Roark Project Manager

Approved by

Gred Denny

**Operations Manager** 

cc: Project File

These contents of this report apply to the sample(s) analyzed. No duplication of this report is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No .100256

State of West Virginia No. 299

State of Wisconsin Wastewater and Hazardous Waste No. 999888890

American Association for Laboratory Accreditation, Accredited for Environmental Lead analysis No. 0627-01

basicover.doc



8100 North Austin Avenue Morton Grove, Illinois 60053-3203 Tel: 847-967-6666 Fax: 847-967-6735 www.emt.com

#### Report of Laboratory Analysis

CLIENT:

BFI

00080753

Lab Order: Project:

Mational Costi

Lab ID:

National Casting 00080753-01A Client Sample ID: SAND

Report Date: 8/31/2000

Collection Date: 8/28/2000

Matrix: Solid

Analyses	Result	Reporti Limit	<sup>ng</sup> Qual Units	Date Analyzed	Analyst
Semivolatiles Organic Compounds, TCI	P ·	'Method;	SW1311/8270C		
1,4-Dichlorobenzene	< 3.75	3.75	mg/L	8/30/2000 6:27:00 PM	GG
2,4,5-Trichlorophenol	< 200.	- 2:00,	mg/L	8/30/2000 6:27:00 PM	GG
2,4,6-Trichlorophenol	·<1.	1.	mg/L	8/30/2000 6:27:00 PM	GG
2,4-Dinitrotoluene	< 0.07	0.07	mg/L	8/30/2000 6:27:00 PM	GG
Hexachlorobenzene	< 0.07	0.07	. mg/L	8/30/2000 6:27:00 PM	GG
Hexachlorobutadiene	< 0.25	0.25	mg/L	8/30/2000 6:27:00 PM	GG
Hexachloroethane	< 1.5	1.5	mg/L	8/30/2000 6:27:00 PM	GG
m,p-Cresol	< 100.	100.	mg/L	8/30/2000 6:27:00 PM	GG
Nitrobenzene	< 1.	1.	mg/L	8/30/2000 6:27:00 PM	GG
o-Cresol	< 100.	100.	mg/L	8/30/2000 6:27:00 PM	GG
Pentachiorophenol	< 50.	50.	mg/L	8/30/2000 6:27:00 PM	GG
Pyridine	< 2.5	2.5	mg/L	8/30/2000 6:27:00 PM	GG
Cresols, Total	< 100.	100.	mg/L	8/30/2000 6:27:00 PM	GG
Volatiles, TCLP		Method:	SW1311/8260B		
1,1-Dichloroethene	< 0.35	0.35	mg/L	8/28/2000 7:26:00 PM	BA
1,2-Dichloroethane	< 0.25	0.25	mg/L	8/28/2000 7:26:00 PM	₿A
1,4-Dichlorobenzene	< 3.75	3.75	mg/L	8/28/2000 7:26:00 PM	BA
2-Butanone	< 100.	100.	mg/L	8/28/2000 7;26:00 PM	BA
Benzene	< 0.25	0.25	mg/L	8/28/2000 7:26:00 PM	BA
Carbon tetrachloride	< 0.25	0.25	mg/L	8/28/2000 7:26:00 PM	BA
Chlorobenzene	< 50.	50.	mg/L	8/28/2000 7:26:00 PM	₿A
Chloroform	< 3.	3.	mg/L	8/28/2000 7:26:00 PM	BA
Tetrachloroethene	< 0.35	0.35	mg/L	8/28/2000 7:26:00 PM	BA
Trichloroethene	< 0.25	0.25	mg/L	8/28/2000 7:26:00 PM	BA
Vinyl chloride	< 0.1	0.1	mg/L	8/28/2000 7:26:00 PM	BA
ICP Metals, TCLP Extracted		Method:	SW6010B		
Arsenic	< 0.577	0.577	mg/L	8/31/2000	ML
Barium	0.303	0.007	mg/L	B/30/2000	GF
Cadmium	< 0.028	0.028	mg/L	8/30/2000	GF
Chromium	< 0.042	0.042	mg/L	8/30/2000	GF
Copper	< 0.087	0.087	mg/L	8/30/2000	GF
Lead	< 0.309	0.309	mg/L	8/31/2000	ML
Nickel	< 0.153	0.153	mg/L	8/30/2000	GF
Selenium	< 0.48	0.43	mg/L	8/30/2000	GF
Silver	< 0.062	0.06.2	mg/L	8/30/2000	GF
Zinc	0.065	0.061	mg/L	8/30/2000	GF

Qualiflers:

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

R - RPD outside accepted recovery limits

H - Holding Time Exceeded



8100 North Austin Avenue Morton Grove, Illinois 60053-3203 Tel: 847-967-6666 Fax: 847-967-6735 www.emt.com

#### Report of Laboratory Analysis

CLIENT:

BFI

Lab Order:

00080753

Project:

National Casting

Lab ID:

00080753-01A

Client Sample ID: SAND

Report Date: 8/31/2000 Collection Date: 8/28/2000

Matrix: Solid

Analyses	Result	Report Limi		Date Analyzed	Analyst
Polychlorinated biphenyls (PCBs)		Method:	SW8082		-
Araclor 1016	< 80.	.03	μg/Kg	8/29/2000	· IP
Aroclor 1221	< 80.	.03	μg/Kg	8/29/2000	IP
Arodor 1232	< 80.	.03	μg/Kg	8/29/2000	ĺΡ
Aroclor 1242	< 80.	.03	µg/Kg	8/29/2000	ΙP
Aroclor 1248	< 80.	80.	μg/Kg	8/29/2000	IP
Aroclor 1254	< 80.	80.	μg/Kg	8/29/2000	ĺΒ
Arodor 1260	< 80.	.08	μg/Kg	8/29/2000	ΙP
Cyanide, Total		Method:	SW9010A		
Cyanide	< 2	2	mg/Kg	8/31/2000 7:40:08 AM	NN
Extracted Organic Halogens		Method:	SW9020A		
Extractible Organic Halldes (EOX)	14	5	mg/Kg	8/30/2000	IGM
Mercury, TCLP Extracted		Method:	SW7471	•	
Mercury	< 0.015	0.015	mg/L	8/30/2000	IG
Open Cup Flash Point		Method:	D92-90		
Ignitibility (open cup)	>180	35	*F	8/29/2000 9:57:15 AM	VT
Free Liquid		Method:	SW9095		
Free Liquid	Pass		Pass/Fail	8/29/2000 7:33:40 AM	VT
Corrosivity by pH		Method:	SW9045C		
рН	9.43		pH Units	8/29/2000 11:50:29 AM	VT
Phenolics		Method:	SW9065		
Phenolics, Total Recoverable	4.89	0.1	mg/kg	8/30/2000	VM
Sulfide, Reactive		Method:	SW7.3.4.2		
Reactive Sulfide	< 10	10	mg/Kg	8/28/2000 10:06:20 PM	SS

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

H - Holding Time Exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits



Chain of Custary Record

JURNA JUND TIME:

RUSH

day furnaround

ROUTINE

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6566 FAX: 847-967-6735 www.emt.com

Due Date:

D Doc# 83610

Company: NATIONAL CASTING / BF/ Address: 1400 S. LANAMIE							Sample Type:  1. Waste Water 4. Sludge 7. Groundwater (filtered)  2. Drinking Water 5. Oil 8. Other							Anc	nalyses						
C/CC20  Phone #: (708) 745 - 705C Fax #:() 345 - 2578  P.O.#: Proj. #: Client Contact: MILE EG /2/C							3. Soil  Conto P - Plas G - Glas	uiner Type stic V - V ss B - T vative:	6. Ground : OC Vial rediar Bag	dwater,	-		N /		S. S. S. S. S. S. S. S. S. S. S. S. S. S	2/2/2	2				
Project ID) Location:							2. H <sub>2</sub> SO <sub>4</sub> 5. HCl HNO <sub>3</sub> 6. MeOH						4/		/192153						
Sämple 1.D.	Sample Type:	-	Contain Type	er No.	pH	Sam Temp.		Time	Preser Field	vation Lab	-/8		N/	W.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\{\\\	//	/ Laboratory Sample Number
SAVP	8		G	13	منسن		8/28	930	1	340				امنسا			, Y				
DUST	8		6	1	in		128	_	1		/				-	ر سر	_				The second secon
57-49-	8					. ,	. P		*			-	+				_ _	_		-	
		, -															-			<u>·</u>	
	·						, ,														
						2.	17 1 1/2							5					.	-	
							j.						+-		-		_	-	-		
Dollar culsion of Dur	*		80				ji		*						6 - 10 -				<i>3</i>	A	
Relinquished By:	- 4		20	٠,	Receive	ed By:	ግ			12:											MPLE RECEIVED
Relinguished			-28		Receive				Date:		 3									TEN	MPERATURE OOO
Ity Id	TI	me:	/3 : 5					,	Time:	<u>c)</u>	<b>7</b> ->			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							205
Relinquishéd By:		ate: me:			Receive	Ford	ab By:		Date:	13	3 5										T SAMPLE RETURN OLICY ON BACK

.IV LHADETEL SHECTHE MUSTE → MIKE EGIZIO

NO.301 D002

ENVIRONTECH, INC. LANDFILL 1800 ASHLEY ROAD MORRIS, IL 60450

Operating Permit Number 1193-428-LF Illinois Facility ID #0638140002 Telephone #(815) 942-1800 FAX #(815) 942-1864

DATE: <u>02/20/01</u>

GENERATOR COMPANY NAME: ABC-NACO National Castings Inc.

**GENERATOR SITE ADDRESS:** 

GENERATOR MAILING ADDRESS:

1400 S. Laramie Ave

110 N 25th Ave

Cicero, IL 60804

Melrose Park, IL 60160

GENERATOR CONTACT/TELEPHONE #: Bob Silanskis (708) 344-0675

TECHNICAL CONTACT/TELEPHONE #: same

ILLINOIS EPA GENERATOR ID #: 0310510007

WASTE STREAM NAME: Refractory Brick

EPA WASTE CLASSIFICATION: Non Hazardous Special Waste

DISPOSAL SITE AUTHORIZATION APPROVAL #: 369Y14637

TOTAL ANNUAL VOLUME: 500 Tons

DISPOSAL AUTHORIZATION EXPIRATION DATE: February 6, 2004

I ALC	1.
Name of Waste: Refractory Brick	
Process Generating Waste: Electric arc furnace & Ladles	A STATE OF THE STA
Type of waste: INDUSTRIAL FROM THE TYPE OF WASTE	ONTROL WASTE
Physical State: SOLID SHMI-SOLID POWDER LIQUID O'	THER:
TATE A TATE OF THE PARTY OF THE	į.

Method of Shipment: (BULK) DRUM BAGGED OTHER / EXPLAIN: TONS: 500 OTHER: Estimated Annual Volume: CUBIC YARDS:

WEEKLY (MONTHLY) OTHER EXPLAIN: DAILY Frequency: ONE TIME ONLY

SPECIAL HANDLING INSTRUCTIONS:

r CP	REPRESENTATIVE SAMPLE	CERTIFICATION
LV.	MENT STIMBERS ELECT AND CONTRACTOR	

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance YES OF NO with U.S. EPA § 40 CFR 261.20(c) guidelines or equivalent rules? GRAB SAMPLE COMPOSITE SAMPLE Circle one: Sample Date: 01/30/01 B.F.I. Melrose Park

Sampler's Employer:

Signature: Mike Egizio Sampler's Name (printed):

V. PHYSICAL (	CHARACTERISTIC:	W	ore Profile #									
		<del></del>										
	CHARACTERISTIC COM	MRWEN12		%BY	WEIGHT (ra	( <b>2</b> C)						
I. Refactory B				95-99%								
2 Dust and se	and	- Contract of the Contract of		.5-18								
\$												
Color	E A. J. S. S. S. S. S. S. S. S. S. S. S. S. S.											
CORE	Odor (describe):	Proce Liquids: YES or NO	% Solids:	pří:	Flash Point:	Phenoi						
Brown	None	Contest		6.61 >	180+ •F	1 - 87pp						
	Attack Laboratory Am	<mark>etylical Ecpart (and</mark> or I paired Parameters Front	Laterial Sof	ty Data Shoe()		·						
Does this waste or general												
and/or Herbicides: Chlord Tossephene, 2, 4-D, 2, 4, 5	iane, Endrin, Hoptschlor (	e, Metboxy	idor,	YES	∝ NO							
Does this waste or genera Hydrogen Sulfide or Flyd	ting process cause is to ex region Cyanide as defined	in § 40 CFR 261,237	sits from big	h levels of	YES	or NO						
Does this waste contain re § 40 CFR Part 761?	gulated concentrations of	Polychiorinated Biphen	/is (PCBs) a	defined in	YES	DE NO						
Does this waste contain re 261.31, 261.32, 261.33, in			defined by §	40 CFR	XE2	x NO						
Does this waste contain re TCCD), or any other disc			enzodioxin	(2, 3, 7, 8 -	YES	T NO						
Is this a regulated Texic b	interial as defined by Fed	eral and/or State regulation	วณร์?		YES (	r NO						
Le this a regulated Radiose	tive Waste as defined by	Federal and/or State regu	lations?		YES (	r NO						
Is this a regalated Medical	l or Indectious Weste as de	fined by Federal and/or	State regulat	iozs?	YES (	x NO						
le this waste gangraded at (	a Roderal Superfund Clea	n Ug Site?			YES c	r NO						
VI. GENERATOR	CERTIFICATION	-	\	, ,								
I hereby certify that to the waste resterial being offer company will deliver for a madical or infectious waste to fully independ this disp Reperce D. Silo.  AUTHORIZED REPRESE  AUTHORIZED REPRESE	ed for disposal. I further of lisposal or etiesopt to del cor any other waste mate cosal facility against any other waste mate cosal facility against any other waste mate cosal facility against any other waste	pertify that by utilizing the fiver for disposal any was risk that facility is prohible amages resulting from the facility of the fiver from the facility of t	is profile, m ite which is ted from ac is certificat	lither myself nor a classified as toxic centing by law. On	ecy other engo c waste, hare us company h be or unitroc. CASTIA NAME	ployee of the rdous waste, creby agrees						
VII. ALLIED WAS	TE DECISION	,										
Conditions:		Rejected		Expiration:	<b>a:</b>							
The state of the s												
Name, The	2ję				ate:							



8100 North Austin Avenue Morton Grove, Illinois 60053-3203 Tel: 847-967-6666 Fax: 847-967-6735

WWW.emt.com

February 6, 2001

Mr. Mike Egizio BFI/Allied Waste 5050 West Lake Street Melrose Park, IL 60160

Re:

**National Casting** 

Dear Mr. Egizio,

The enclosed analytical reports are for the project listed above. If you have any questions, please contact me at 847-967-6666.

Sincerely

Megan P. Roark Project Manager

Approved by

Greg Denny

Operations Manager

cc: Project File

Page 1 of 3.

These contents of this report apply to the sample(s) enalyzed. No duplication of this report is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No .100256

State of West Virginia No. 299

State of Wisconsin Wastewater and Hazardous Waste No. 999888890



8100 North Austin Avenue Morton Grove, Winois 60053-3203

Tel: 847-967-6666 Fex: 847-967-6735

WWW.emt.com

#### Report of Laboratory Analysis

CLIENT: Lab Order: BFI

Project:

01010539

Lab ID:

National Casting

01010539-01A

Client Sample ID: Refractory Brick

Report Date: 2/7/01

Collection Date: 1/30/01

Matrix: Solid

Analyses	Result	Report Limi	ing Qual Units	Date Analyzed	Analyst
Semivolatiles Organic Compounds, TCLP		Method:	SW1311/8270C		
1.4-Dichlorobenzene	< 3.75	3,75	mg/L	2/2/01 5:37:00 PM	GG
2,4,5-Trichiorophenoi	< 200.	200.	mg/L	2/2/01 5:37:00 PM	GG
2,4,6-Trichlorophenol	<b>&lt;</b> 1.	· 1.	mg/L	2/2/01 5:37:00 PM	GG
2,4-Dinitrotoluene	< 0.07	0.07	mg/L	2/2/01 5:37:00 PM	GĞ
Hexachlorobenzene	< 0.07	0.07	mg/L	2/2/01 5:37:00 PM	GG
Hexachlorobutadiene	< 0.25	0.25	mg/L	2/2/01 5:37:00 PM	GG
Hexachioroethane	< 1.5	1.5	mg/L	2/2/01 5:37:00 PM	GG
m,p-Cresol	< 100.	100.	mg/L	2/2/01 5:37:00 PM	GG
Nitrobenzene	< 1.	1.	mg/L,	2/2/01 5:37:00 PM	GG
o-Cresol	< 100.	100.	mg/L	2/2/01 5:37:00 PM	GG
Pentachlorophenoi	< 50.	50.	mg/L	2/2/01 5:37:00 PM	GG
Pyridine	< 2,5	2.5	mg/L	2/2/01 5:37:00 PM	GG
Cresols, total	< 100.	100.	mg/L	2/2/01 5:37:00 PM	GG
Volatiles, TCLP		Method:	SW1311/8260B		
1,1-Dichloroethene	< 0.35	9.35	mg/L	2/4/01 11:05:00 PM	BA
1,2-Dichloroethane	< 0.25	0.25	mg/L	2/4/01 11:05:00 PM	BA
1,4-Dichlorobenzene	< 3.75	3.75	mg/L	2/4/01 11:05:00 PM	BA
2-Butanone	< 100.	100.	mg/L	2/4/01 11:05:00 PM	BA
Benzene	< 0.25	0.25	mg/L	2/4/01 t1:05:00 PM	BA
Carbon tetrachloride	< 0.25	0.25	mg/L	2/4/01 11:05:00 PM	BA
Chlorobenzene	< 50	50.	mg/L	2/4/01 11:05:00 PM	BA
Chloroform	< 3.	3.	mg/L	2/4/01 11:05:00 PM	BA
Tetrachioroethene	< 0.35	0.35	mg/L	2/4/01 11:05:00 PM	BA
Trichloroethene	< 0.25	0.25	· mg/L	2/4/Q1.11:05:00 PM	BA .
Vinyl chloride	< 0.1	0.1	mg/L	2/4/01 11:05:00 PM	BA
ICP Metals, TCLP Extracted		Method;	SW6010B		
Arsenic	< 0.658	0.65\$	mg/L	2/5/01	ML
Banum	0.018	0.013	mg/L	2/5/01	ML
Cadmium	< 0.033	0.033	mg/L	2/5/01	ML
Chromium	< 0.06	0.06	mg/L	2/5/01	ML
Copper	< 0.087	0.087	mg/L	2/5/01	ML
Lead	< 0.274	0.274	mg/L	2/5/01	ML
Nickel	< 0.14	0.14	mg/L	2/5/01	ML
Selenium	< 0.8	0.8	mg/L	2/5/01	ML
	< 0.057	0.067	mg/L	2/5/01	ML
Zinc	0,145	0.066	mg/L	2/5/01	ML

Qualifiers:

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

E - Estimated

R - RPD outside accepted recovery limits

H - Holding Time Exceeded



8100 North Austin Avenue Morton Grave, Illinois 60053-3203 Tel: 847-967-6666 Fax: 847-967-6735 www.emt.com

#### Report of Laboratory Analysis

CLIENT:

BFI

Client Sample ID: Refractory Brick

Lab Order:

01010539

Report Date: 2/7/01

Project:

National Casting

Collection Date: 1/30/01

Lab ID:

01010539-01A

Matrix: Solid

Analyses	Result	Reporti Limit	og Qual Units	Date Analyzed	Analyst
Polychlorinated biphenyls (PCBs)		Method:	SW8082		
Aroclor 1016	< 80.	80.	μg/ <b>K</b> g	2/2/01 5:19:00 PM	IP
Arocior 1221	< 80.	80.	μ <b>g/K</b> g	2/2/01 5:19:00 PM	IP
Aradot 1232	. ← 80.	80.	µg/Kg -	2/2/01 5:19:00 PM	ib.
Aractor 1242	< 80.	80.	µg/Kg	2/2/01 5:19:00 PM	1P
Aroclor 1248	< 80,	80.	μg/Kġ	2/2/01 5:19:00 PM	1P
Aroclor 1254	< 80.	80.	<b>µg/К</b> g	2/2/01 5:19:00 PM	IP
Arocior 1260	< 80.	80.	μ <b>ģ/K</b> g	2/2/01 5:19:00 PM	IP ·
Cyenide, Total		Method:	SW9010A		•
Cyanide	< 2	2	mg/Kg	1/31/01	NN
Extracted Organic Halogens		Method:	SW9020A		
Extractible Organic Hatides (EOX)	36	5	mg/Kg	1/31/01	IGM
Mercury, TCLP Extracted		Method:	SW7471		
Mercury	< 0.0004	0.0004	mg/L	2/1/01	IG
Open Cup Flash Point		Method:	D92-90		
Ignitibility (open cup)	>180	35	<b>°</b> F	1/31/01 2:38:07 PM	V٢
Free Liquid		Method:	SW9095		
Free Liquid	Pass		Pass/Fail	1/31/01 2:45:46 PM	VT
Corresivity by pH		Method:	SW9045C		
pH	6.61		pH Units	1/31/01 10:40:16 AM	VT
Phenolics		Method:	SW9065		
Phenolics, Total Recoverable	< 1,87	1.87	mg/kg	1/31/01 8:26:07 PM	· VM
Sulfide, Reactive		Method:	SW7.3.4.2	•	
Reactive Sulfide	< 10	10	mg/Kg	1/31/01 7:51:31 PM	\$8
•					

B - Analyte detected in the associated Method Blank

E - Estimated

H - Holding Time Exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits



# **Chain of Custody Record**

TURNARAOUND TIME:	7
RUSH	- [
day tumoround	
YS ROUTINE	"

8100 North Austin Avenue Morton Grave, Illinois 60053-3203 847-967-6666 FAX: 847-967-6735 www.emt.com

Due Date: 2 -6 -01 coc #: 106185

Company: BF!  Address: SOSD W. Lake St  Metrose Auk, I(  MIKE CEP210  Phone #: (						2. Drinking Water 8. Off 8. O 3. Soil 6. Groundwater				7. Ground 8. Other er	water (1	Merad)	ad)			At	nciys	95			
Sample I.D.	Somple Type	_	Containe		-	-	ompling		1		ervation	-\3'\	/· // .	1.	/ /	1	/ /	1	[ 4		
	عرور ا	. Size	Туре	No.	Ву	Date	Time	PH ,	Temp.	, Field	Lab.	(		-	*				k::-:/(	garani. Nakata in ma	the section of
KUSherony Brie			G			1.30.01	150	10 miles	37/20		100 T	X	-				,	·	·		
			Ĭ			.: 1		· ·			泛流			·							
		-					,					ļ.									
•											表。			ĺ. <b>I</b>					_ 3		
				-			٠.			-		-		1					\$5.00 kg		
_			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	٠,							<b>建</b>							1.	が長		
		· ·		-	:			_		· ·								-	· · · · · · · · · · · · · · · · · · ·	100	
	<del>                                     </del>			<u> </u>					-										7		
			<b></b>										1.		1.				- 134 (\$		
	<del> </del>	<u> </u>	-		<del>                                     </del>						1				1		1				
Relincy (Ished By:	: 1	Date: /	30	0%	Recelv	ed By:			Date:	1-30	-0/	SEMT	JSE O	WY.	\$ × 1	V.	<b>S</b>	TAN	PE	ic Ma	
MEON	- · · · · · · · · · · · · · · · · · · ·	Time: /			P	-//			Ime:	/2 2	75 ·	Čie	t Coc	e n	78f						
Relinicijuishee By		Date: /			Receiv		- <b>3</b> -4-4-7-	~	Date:	- J	- 1	EM		***							
A Me	. 1	Time: /					-		Time:	: •		81									
Reincaushed By:		Date:	<del></del>		Receiv	ed For Lo	ab Bv:	- <del> </del>	Date: (	-30		Jär l			WITH E				6.0		10 TO 10
		Time:	 :	• • •	11		1/2	سب	Time:	50							7 10	EM	JOY	PLE MAIN	